


PRESENTED BY

Tufts College.



Digitized by the Internet Archive
in 2014

8.744
TH1

TUFTS COLLEGE

Vol. XVII **BULLETIN** No. 2

DECEMBER, 1916

ANNUAL CATALOGUE

1916-1917

PUBLISHED BY THE TRUSTEES OF TUFTS COLLEGE

Entered at the Post Office, Boston, Mass., as Second-Class Matter

THE
REGISTER
OF
TUFTS COLLEGE

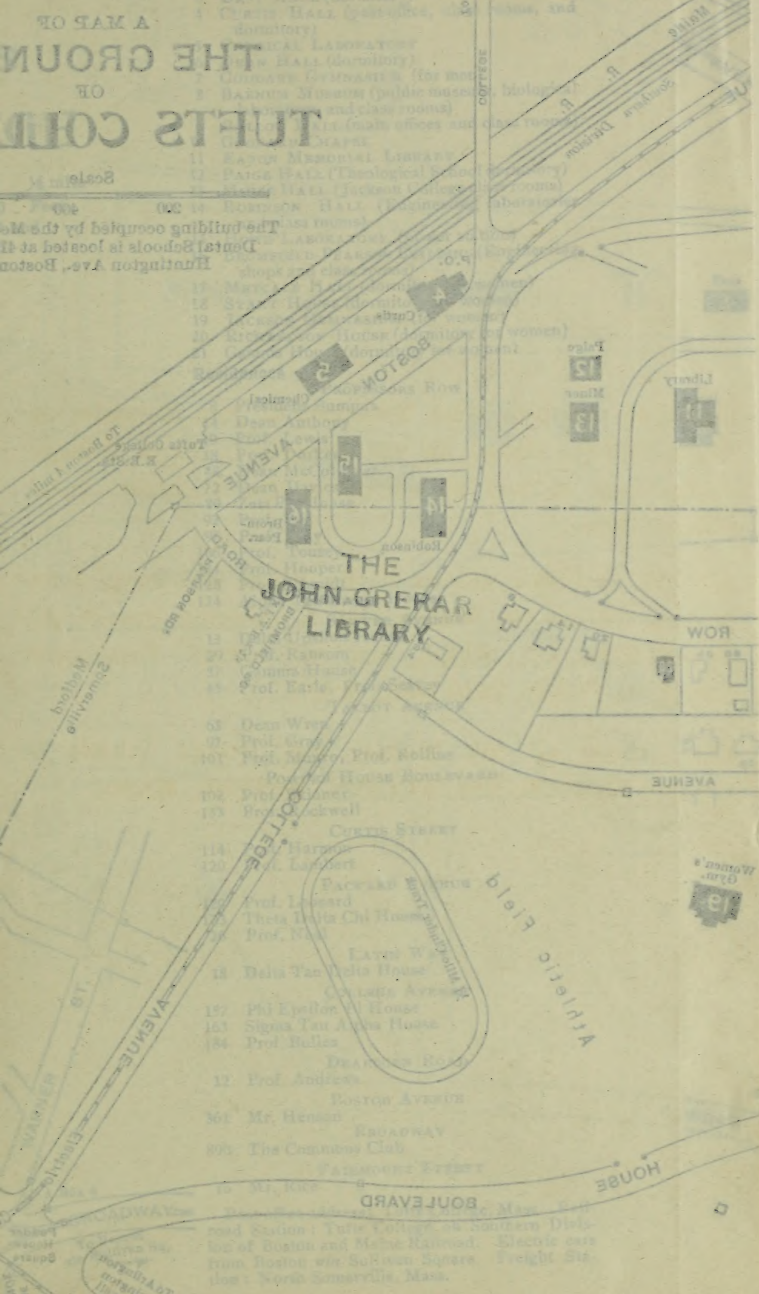
Published monthly, from November to June inclusive, at Tufts College, Mass., by the Trustees of Tufts College. Copies may be had by addressing the Registrar, Tufts College, Mass.

The post-office address of the School of Liberal Arts, Jackson College for Women, the Engineering School, the Bromfield-Pearson School, and the Crane Theological School, is TUFTS COLLEGE, MASS.

The address of the Medical and Dental Schools is 416-430 HUNTINGTON AVENUE, BOSTON, MASS.

THE GROUND OF TUFTS COLLEGE

Scale 1:1000
The building occupied by the
Dental Schools is located at
Huntington Ave., Boston



THE JOHN GREER LIBRARY

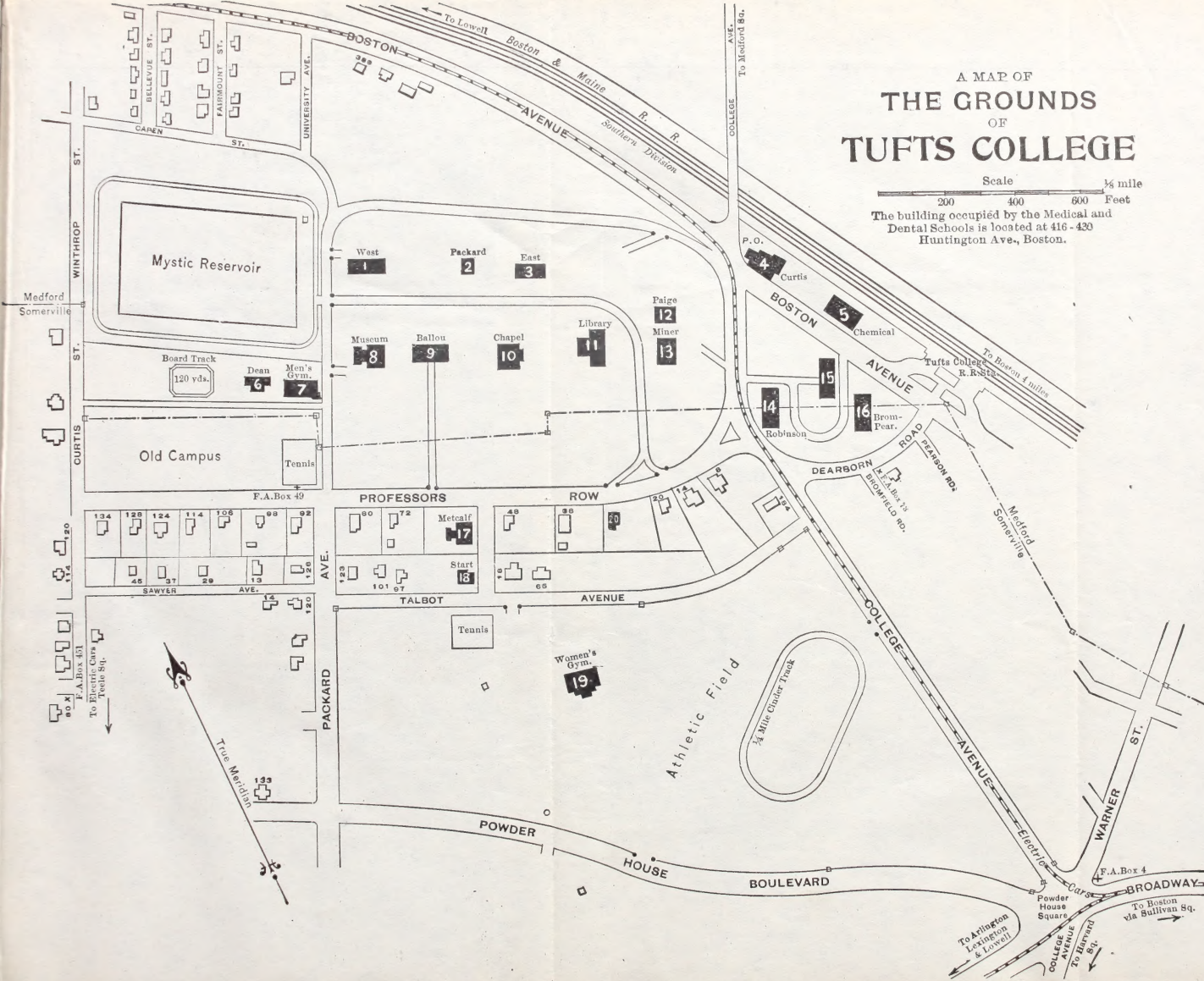
13 Dana Tan Yee House
137 Phil Eyolfson House
153 Sigma Tau Alpha House
184 Prof. Bellas

12 Prof. Andrews
Boston Avenue
106 Mr. Henson
105 The Commons Club



A MAP OF THE GROUNDS OF TUFTS COLLEGE

Scale $\frac{1}{4}$ mile
200 400 600 Feet
The building occupied by the Medical and
Dental Schools is located at 416-430
Huntington Ave., Boston.



College Buildings

- 1 WEST HALL (dormitory)
- 2 PECKARD HALL (Theological class rooms)
- 3 EAST HALL (dormitory)
- 4 CURTIS HALL (post-office, class rooms, and dormitory)
- 5 CHEMICAL LABORATORY
- 6 DEAN HALL (dormitory)
- 7 GODDARD GYMNASIUM (for men)
- 8 BARNUM MUSEUM (public museum, biological laboratory, and class rooms)
- 9 BALLOU HALL (main offices and class rooms)
- 10 GODDARD CHAPEL
- 11 EATON MEMORIAL LIBRARY
- 12 PAIGE HALL (Theological School dormitory)
- 13 MINER HALL (Jackson College class rooms)
- 14 ROBINSON HALL (Engineering laboratories and class rooms)
- 15 HOWE LABORATORY (power station)
- 16 BROMFIELD-PEARSON BUILDING (Engineering shops and class rooms)
- 17 METCALF HALL (dormitory for women)
- 18 START HOUSE (dormitory for women)
- 19 JACKSON GYMNASIUM (for women)
- 20 RICHARDSON HOUSE (dormitory for women)
- 21 Gamma House (dormitory for women)

Residences

- PROFESSORS ROW**
- 8 President Bumpus
 - 14 Dean Anthony
 - 20 Prof. Lewis
 - 38 Prof. Durkee
 - 48 Dean McCollister
 - 72 Dean Davies
 - 80 Zeta Psi House
 - 92 Prof. Fay
 - 98 Prof. Bray
 - 106 Prof. Tousey
 - 124 Prof. Hooper
 - 128 Prof. Schmidt
 - 134 Alpha Tau Omega House
- SAWYER AVENUE**
- 13 Delta Upsilon House
 - 29 Prof. Ransom
 - 37 Gamma House
 - 45 Prof. Earle, Prof. Seavey
- TALBOT AVENUE**
- 65 Dean Wren
 - 97 Prof. Gray
 - 101 Prof. Munro, Prof. Rollins
- POWDER HOUSE BOULEVARD**
- 102 Prof. Skinner
 - 133 Prof. Rockwell
- CURTIS STREET**
- 114 Prof. Harmon
 - 120 Prof. Lambert
- PACKARD AVENUE**
- 120 Prof. Leonard
 - 123 Theta Delta Chi House
 - 26 Prof. Neal
- LATIN WAY**
- 18 Delta Tau Delta House
- COLLEGE AVENUE**
- 157 Phi Epsilon Pi House
 - 163 Sigma Tau Alpha House
 - 184 Prof. Bolles

- DEARBORN ROAD**
- 12 Prof. Andrews
- BOSTON AVENUE**
- 361 Mr. Henson
- BROADWAY**
- 890 The Commons Club
- FAIRMOUNT STREET**
- 10 Mr. Rice

Post-office address: Tufts College, Mass. Railroad Station: Tufts College, on Southern Division of Boston and Maine Railroad. Electric cars from Boston via Sullivan Square. Freight Station: North Somerville, Mass.

THE
HUNTER
LIBRARY



TUFTS COLLEGE

Copyright 1913 by
W. T. Little, New York

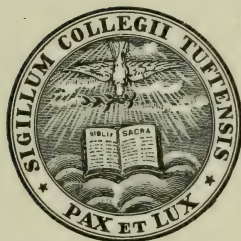
Reproduced from a Photogravure 14 x 28 inches

TUFTS COLLEGE CATALOGUE

CATALOGUE

TUFTS COLLEGE

1916-1917



SCHOOL OF LIBERAL ARTS
JACKSON COLLEGE FOR WOMEN
ENGINEERING SCHOOL
BROMFIELD-PEARSON SCHOOL
CRANE THEOLOGICAL SCHOOL
GRADUATE SCHOOL
PRE-MEDICAL COURSE
MEDICAL SCHOOL
DENTAL SCHOOL

The purpose of this publication is to give information to those who may desire to become students of Tufts College, and to provide a book of reference.

It is the policy of the College not to introduce changes in requirements for admission without due notice in the catalogue, and not to impose additional requirements upon classes already enrolled. Changes in the curriculum and in the program occasionally may be necessary, and under such circumstances equitable adjustment is made.

The Registrar will be glad to answer inquiries, and an invitation to visit the College is extended to those who may desire to do so.

Tufts College

While the College owed its beginning to the efforts and to the support of members of the Universalist denomination, the charter provided that "No instructors in said College shall ever be required by the Trustees to profess any particular religious opinions as a test of office, and no student shall be refused admission to or denied any of the privileges, honors, or degrees of said college, on account of the religious opinions he may entertain."

Its purpose is to provide substantial instruction in fundamental subjects, and to encourage those who are eager to make use of its educational opportunities, in order that they may improve themselves and thus contribute to the general improvement of the community.

To this end the institution is using a large endowment and is enlisting the support of graduates and friends. The Faculty aims not only to teach, but to ascertain the intellectual deficiencies and proficiencies of the students, and through personal effort and sympathetic counsel to strengthen the places wherein they are weak and to develop to the utmost the places wherein they are strong.

Tufts College does not desire to enlarge its enrollment with those who seek leisure, or who look lightly upon college work, but it will do its utmost to help those who come to it with the fixed purpose of profiting by what it can give.

LOCATION OF TUFTS COLLEGE

The Buildings and Grounds in Somerville and Medford

The original buildings were located on Walnut Hill in Somerville and Medford—adjoining the City of Boston—and about five miles from the State House. Several car lines run directly to the College Grounds. The campus is large, embracing about eighty acres. There are twenty buildings used for educational and dormitory purposes. These with the grounds have an estimated value of \$1,335,000. Here are

375.744
THI

432591
17703
Withdrawn

located the School of Liberal Arts, Jackson College for Women, the Engineering School, the Bromfield-Pearson School, the Crane Theological School, and the Graduate School.

The Buildings and Grounds in Boston

In 1893 the Tufts College Medical School was established, and in 1899 the Boston Dental College was taken over by legislative sanction. These professional schools are located in the Medical-Dental Buildings, 416 Huntington Ave., Boston, Mass. The land and buildings represent an investment of over \$300,000. There are 83,000 square feet of floor space divided into lecture rooms, laboratories, offices, etc.

The College has an interest in the Biological Laboratory at South Harpswell, Maine, which enables it to offer special privileges to officers and students.

The College is fortunate in its location. Student life at "The Hill" is substantially like that of the smaller colleges in New England. The students and Faculty form a community, the members of which are well acquainted with each other, and there are many social interests in which all share. A close intimacy between the Faculty and the student body has always prevailed.

The proximity of Boston makes it easy for students to avail themselves of the libraries, museums, and other social, educational, and cultural facilities that are offered by a large city. Students receive material benefit from the privileges offered by business houses, manufacturing plants, and other institutions.

The Medical-Dental Buildings are not far from the Library of the Boston Medical Association, are central to the larger hospitals dispensaries, and clinics, and near a score or more of scientific and educational institutions.

The control of the College is vested by the charter in a Board of Trustees, ten of whom are elected by the Alumni. The immediate control of the educational work rests with the several Faculties.

The Trustees of Tufts College

President

AUSTIN BARCLAY FLETCHER

Vice-President

WILLIAM WALLACE McCLENCH

Secretary

EDMUND WILBUR KELLOGG, 24 Milk St., Boston

Treasurer

ARTHUR ELLERY MASON, 24 Milk St., Boston

Assistant-Treasurer

EDMUND WILBUR KELLOGG, 24 Milk St., Boston

Executive Committee

CHARLES NEAL BARNEY, *Chairman*

SUMNER ROBINSON ARTHUR WINSLOW PEIRCE

ROBERT ROBBINS ANDREWS WALTER HERMON BELCHER

ROSEWELL BIGELOW LAWRENCE IRA RICH KENT

GUY MONROE WINSLOW

HERMON CAREY BUMPUS

Committee on Finance

WALTER EDWARD PARKER, *Chairman*

WILLIAM WALDEMAR SPAULDING JAMES ARTHUR JACOBS

J. FRANK WELLINGTON JOHN ALBERT COUSENS

Trustees

JOHN COLEMAN ADAMS, A.M., D.D. Hartford, Conn.

BYRON GROCE, A.M., Litt.D. Boston

HOSEA WASHINGTON PARKER, A.M., LL.D. . Claremont, N. H.

WALTER EDWARD PARKER, A.M. Lawrence

WILLIAM WALDEMAR SPAULDING, A.M. Haverhill

SUMNER ROBINSON, A.M., LL.B. Newton

JOHN WILKES HAMMOND, A.B., LL.D. Cambridgeport

J. FRANK WELLINGTON, A.M.	Somerville
ARTHUR ELLERY MASON, A.M.	Boston
ROBERT ROBBINS ANDREWS, A.M., D.D.S.	Cambridge
JAMES ARTHUR JACOBS, A.M.	Roxbury
ROSEWELL BIGELOW LAWRENCE, LL.B., A.M.	Medford
ARTHUR WINSLOW PEIRCE, A.B., Litt.D. (1917) . . .	Franklin
CHARLES NEAL BARNEY, A.M., LL.B. (1918)	Lynn
AUSTIN BARCLAY FLETCHER, A.M., LL.D.	New York, N. Y.
LLOYD EVERETT WHITE, A.B. (1920)	Taunton
FRED GOWING, Ph.D. (1917)	Philadelphia, Pa.
JOHN ALBERT COUSENS, A.B.	Chestnut Hill
IRA RICH KENT, A.B.	Boston
WILLIAM DAVIS THAYER TREFRY, A.M. (1921) . . .	Marblehead
WILLIAM WALLACE McCLENCH, A.B. (1921)	Springfield
CHARLES HIAL DARLING, A.B., LL.D.	Burlington, Vt.
ROBERT CALTHROP BROWN, A.B., E.E.	Toronto, Canada
MILTON GERRY STARRETT, Sc.D. (1918)	New York, N. Y.
WALTER HERMON BELCHER, A.B. (1919)	Medford
GUY MONROE WINSLOW, A.B., Ph.D. (1919)	Auburndale
HERMON CAREY BUMPUS, Ph.D., Sc.D., LL.D. . .	Tufts College
GEORGE ALEC HARWOOD, M.S., Sc.D. (1920) . .	New York, N. Y.

Numbers following the names indicate date of expiration of term of Trustees elected by the Alumni.

The Board of Visitors

TO THE SCHOOL OF LIBERAL ARTS

ARTHUR WINSLOW PEIRCE

BYRON GROCE

FRED GOWING

TO JACKSON COLLEGE

IRA RICH KENT

WILLIAM WALLACE McCLENCH

SUMNER ROBINSON

TO THE ENGINEERING SCHOOL

MILTON GERRY STARRETT

ROBERT CALTHROP BROWN

GEORGE ALEC HARWOOD

TUFTS COLLEGE

TO THE CRANE THEOLOGICAL SCHOOL

ROSEWELL BIGELOW LAWRENCE

JOHN COLEMAN ADAMS

HOSEA WASHINGTON PARKER

TO THE MEDICAL SCHOOL

JOHN ALBERT COUSENS

CHARLES HIAL DARLING

CHARLES NEAL BARNEY

TO THE DENTAL SCHOOL

ROBERT ROBBINS ANDREWS

GUY MONROE WINSLOW

WALTER HERMON BELCHER

OFFICE OF THE BOARD OF TRUSTEES

24 Milk Street, Boston

EUGENE EVERETT SHEPARD, Bursar . 43 Boston Ave., W. Medford

CLARENCE SHERWOOD CASSIDY, Assistant Bursar

44 Fox St., Dorchester

MARY LIZZIE CARTER, Bookkeeper . . 20 Rossiter St., Dorchester

ELSA WILHELMINA VOGEL, Assistant to Treasurer

40 Hartwell St., Roxbury

PART I

THE ASSOCIATED SCHOOLS

(Located at "The Hill")

SCHOOL OF LIBERAL ARTS

(Giving the degrees of A.B. and B.S.)

JACKSON COLLEGE FOR WOMEN

(Giving the degrees of A.B. and B.S.)

ENGINEERING SCHOOL

(Giving the degree of B.S.)

BROMFIELD-PEARSON SCHOOL

(One-year course. No degree)

CRANE THEOLOGICAL SCHOOL

(Giving the degree of S.T.B.)

GRADUATE SCHOOL

(Giving the degrees of A.M. and M.S.)

A Pre-Medical Course providing instruction equivalent to one year of college work is conducted at the Medical-Dental Buildings, but the instruction is given under the direction of the School of Liberal Arts.

Calendar — 1917

JANUARY							MAY							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6			1	2	3	4	5							1
7	8	9	10	11	12	13	6	7	8	9	10	11	12	2	3	4	5	6	7	8
14	15	16	17	18	19	20	13	14	15	16	17	18	19	9	10	11	12	13	14	15
21	22	23	24	25	26	27	20	21	22	23	24	25	26	16	17	18	19	20	21	22
28	29	30	31				27	28	29	30	31			23	24	25	26	27	28	29
														30						
FEBRUARY							JUNE							OCTOBER						
					1	2						1	2		1	2	3	4	5	6
4	5	6	7	8	9	10	3	4	5	6	7	8	9	7	8	9	10	11	12	13
11	12	13	14	15	16	17	10	11	12	13	14	15	16	14	15	16	17	18	19	20
18	19	20	21	22	23	24	17	18	19	20	21	22	23	21	22	23	24	25	26	27
25	26	27	28				24	25	26	27	28	29	30	28	29	30	31			
MARCH							JULY							NOVEMBER						
				1	2	3	1	2	3	4	5	6	7					1	2	3
4	5	6	7	8	9	10	8	9	10	11	12	13	14	4	5	6	7	8	9	10
11	12	13	14	15	16	17	15	16	17	18	19	20	21	11	12	13	14	15	16	17
18	19	20	21	22	23	24	22	23	24	25	26	27	28	18	19	20	21	22	23	24
25	26	27	28	29	30	31	29	30	31					25	26	27	28	29	30	
APRIL							AUGUST							DECEMBER						
1	2	3	4	5	6	7				1	2	3	4							1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30						26	27	28	29	30	31		23	24	25	26	27	28	29
														30	31					

Calendar of the Associated Schools

1917

- JAN. 3. Christmas recess ends, Wednesday evening.
FEB. 2-7. Mid-year examinations.
FEB. 7. End of first half-year, Wednesday.
FEB. 12. Second half-year begins, Monday. Registration.
FEB. 22. Washington's Birthday. Exercises are suspended.
APRIL 18. Spring recess begins, Wednesday evening.
APRIL 25. Spring recess ends, Wednesday evening.
MAY 11. Goddard Prize Readings, Friday, 8 P.M. (Goddard Chapel).
MAY 30. Memorial Day. Exercises are suspended.
JUNE 9-14. Final examinations.
JUNE 17. Baccalaureate Sermon, 4 P.M. (Goddard Chapel).
JUNE 20. Annual Commencement, Wednesday.

Summer Vacation, Thirteen Weeks

- SEPT. 13-15. Entrance examinations given in Ballou Hall, Tufts College, Mass. For the schedule see "Admission by Examination."
SEPT. 20. College year begins, Thursday morning. Registration.
OCT. 12. Columbus Day. Exercises are suspended.
OCT. 14. Russell Lecture, Sunday, 4 P.M. (Goddard Chapel)
NOV. 21. Announcement of Academic Honors, 12 M. (Goddard Chapel)
NOV. 29. Thanksgiving Day. Exercises are suspended.
DEC. 19. Christmas recess begins, Wednesday evening.

1918

- JAN. 2. Christmas recess ends, Wednesday evening.
FEB. 1-6. Mid-year examinations.
FEB. 6. End of the first half-year, Wednesday.
FEB. 11. Second half-year begins, Monday. Registration.
FEB. 22. Washington's Birthday. Exercises are suspended.
APRIL 17. Spring recess begins, Wednesday evening.
APRIL 24. Spring recess ends, Wednesday evening.
MAY 10. Goddard Prize Readings, Friday, 8 P.M. (Goddard Chapel).
MAY 30. Memorial Day. Exercises are suspended.
JUNE 8-13. Final examinations.
JUNE 16. Baccalaureate Sermon, Sunday, 4 P.M. (Goddard Chapel).
JUNE 19. Annual Commencement, Wednesday.

Faculty of the Associated Schools

The post office address is Tufts College, Mass., unless otherwise indicated.

President

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D. . 8 Professors Row

Deans

FRANK GEORGE WREN, A.M. 65 Talbot Ave.
School of Liberal Arts

CAROLINE STODDER DAVIES, A.M. 72 Professors Row
Jackson College for Women

GARDNER CHACE ANTHONY, A.M., SC.D. . . 14 Professors Row
Engineering School

LEE SULLIVAN MCCOLLESTER, D.D. . . . 48 Professors Row
Crane Theological School

CHARLES ERNEST FAY, A.M., LITT.D. . . . 92 Professors Row
Graduate School

Chaplain

EDWIN CORTLANDT BOLLES, D.D., LL.D. . . 184 College Ave.

Recording Secretary

WILLIAM HOWELL REED, A.M. 81 Walnut Ave., Roxbury

Professors Emeriti

CHARLES HALL LEONARD, A.M., D.D., LL.D. . 120 Packard Ave.
*Goddard Professor of Homiletics and Pastoral Theology,
and Dean of the Crane Theological School*

CHARLES DURLIN BRAY, C.E., A.M. 98 Professors Row
Mechanical Engineering

GEORGE MILFORD HARMON, A.M., D.D. . . . 114 Curtis St.
Biblical Theology

WILLIAM GEORGE TOUSEY, A.M., S.T.D. . . 106 Professors Row
Logic and Ethics

Professors

Arranged in the order of their service at Tufts.

CHARLES ERNEST FAY, A.M., LITT.D. . . . 92 Professors Row
*Wade Professor of Modern Languages, and Dean of the
Graduate School*

WILLIAM LESLIE HOOPER, A.M., PH.D., Sc.D., LL.D. <i>Electrical Engineering</i>	124 Professors Row
FRANK WILLIAMS DURKEE, A.M.	38 Professors Row
<i>Chemistry</i>	
LEO RICH LEWIS, A.M.	20 Professors Row
<i>History and Theory of Music</i>	
GARDNER CHACE ANTHONY, A.M., Sc.D. . .	14 Professors Row
<i>Technical Drawing, and Dean of the Engineering School and Bromfield Pearson School</i>	
FRANK GEORGE WREN, A.M.	65 Talbot Ave.
<i>Walker Professor of Mathematics, and Dean of the School of Liberal Arts</i>	
SAMUEL CHANDLER EARLE, A.M.	45 Sawyer Ave.
<i>English</i>	
CHARLES HARRIS CHASE, S.B.	39 Lincoln St., Stoneham
<i>Steam Engineering</i>	
FRED DAYTON LAMBERT, A.M., PH.D.	120 Curtis St., W. Somerville
<i>Botany</i>	
WILLIAM KENDALL DENISON, A.M.	42 Fletcher St., Winchester
<i>Latin Language and Literature</i>	
*HENRY CLAYTON METCALF, A.B., PH.D. . .	31 Sheffield Road, Winchester
<i>Jackson Professor of Political Science</i>	
EDWIN CORTLANDT BOLLES, A.M., PH.D., D.D., LL.D. <i>Dickson Professor of English and American History</i>	184 College Ave.
WILLIAM RICHARD RANSOM, A.M.	29 Sawyer Ave.
<i>Mathematics</i>	
FRANK BERRY SANBORN, C.E., M.S.	8 Buena Vista Park N. Cambridge
<i>Civil Engineering</i>	
EDWARD HENRY ROCKWELL, S.B.	133 Powder House Boulevard, W. Somerville
<i>Structural Engineering</i>	
ALFRED CHURCH LANE, A.M., PH.D., Sc.D. . .	22 Arlington St., N. Cambridge
<i>Pearson Professor of Geology and Mineralogy</i>	
HENRY IRVING CUSHMAN, A.M., D.D.	26 Pitman St., Providence, R. I.
<i>Homiletics</i>	
CAROLINE STODDER DAVIES, A.M.	72 Professors Row
<i>English and Dean of Jackson College for Women</i>	
HINCKLEY GILBERT MITCHELL, D.D. . . .	36 Pinckney St., Boston
<i>Hebrew and Old Testament Exegesis</i>	

*On leave of absence.

ARTHUR IRVING ANDREWS, PH.D.	12 Dearborn Rd.
<i>History and Public Law</i>	
KARL SCHMIDT, A.M., PH.D.	128 Professors Row
<i>Philosophy and Education</i>	
LEE SULLIVAN MCCOLLESTER, D.D.	48 Professors Row
<i>Packard Professor of Christian Theology, and Dean of Crane Theological School</i>	
HERBERT VINCENT NEAL, PH.D.	126 Packard Ave.
<i>Zoology</i>	
CLARENCE RUSSELL SKINNER, A.M.	102 Powder House Blvd., Woodbridge Professor of Applied Christianity
	W. Somerville
CHARLES HENRY GRAY, PH.D.	97 Talbot Ave.
<i>English</i>	

Assistant Professors

Arranged in the order of their service at Tufts.

GEORGE FRANCIS ASHLEY	47 Avon St., Somerville
<i>Technical Drawing</i>	
EDWIN BUTLER ROLLINS, B.S.	101 Talbot Ave.
<i>Electrical Engineering</i>	
MELVILLE SMITH MUNRO, B.S.	101 Talbot Ave.
<i>Electrical Engineering</i>	
WILLIAM HOWELL REED, A.M.	81 Walnut Ave., Roxbury
<i>Modern Languages</i>	
ALEXANDER DILLINGHAM, A.M.	40 Wildwood Ave., Arlington
<i>Mathematics</i>	
FRANK ELIAS SEAVEY, A.M.	45 Sawyer Ave.
<i>English</i>	
RICHARD CURTIS SMITH, B.S.	15 Warren St., W. Medford
<i>Structural Engineering</i>	
SAMUEL LUCAS CONNER, M.S.	33 Emery St., Medford Hillside
<i>Railroad Engineering</i>	
HOWARD HASTINGS CARROLL, B.S.	66 Wyman St., W. Medford
<i>Technical Drawing</i>	
ALBERT HATTON GILMER, A.M.	154 Woburn St., W. Medford
<i>English</i>	
HENRY HOWARD MARVIN, B.S., PH.D.	59 W. Adams St., Medford Hillside
<i>Physics</i>	
EUGENE HOWARD BABBITT, A.B.	Ballou Hall
<i>Modern Languages</i>	

- RALPH BYRON WILSON, A.M. . . . 28 Whitman St., W. Somerville
Political Science
- VANNEVAR BUSH, M.S., ENG.D. 38 Dearborn St., Medford
Electrical Engineering
- WILLIAM FRANK WYATT, PH.D. 12 Curtis Ave.
Greek

Instructors

- CONRAD ARNOLD ADAMS, B.S. 108 College Ave., Medford
Mechanic Arts
- CROSBY FRED BAKER, M.S. 75 Pearson Rd., W. Somerville
Chemistry
- HARRY POOLE BURDEN, B.S. . . . 34 W. Adams St., W. Somerville
Civil Engineering
- LOUIS RAYMOND BURNETT, M.D. . . . 11 Everett St., Cambridge
Physical Education
- JOSEPH CHANDLER, PH.D. 7 Edison Ave., Medford Hillside
Organic Chemistry
- SHIRLEY WILCOX HARVEY, A.B. Dean Hall, 6
English
- MERRILL CRISTY HILL, A.M. 135 North St., W. Somerville
Modern Languages in the Engineering School
- JOHN LOUIS CHARLES KEEGEN, A.M. West Hall, 8
English and Assistant to Dr. Bolles
- NATHANIEL HOBBS KNIGHT, B.S. . . . 44 Stearns Ave., Medford
Physics
- EDGAR MACNAUGHTON, M.E. . . . 88 Quincy St., Medford Hillside
Mechanical Engineering
- MARY CALDWELL MURRAY Start House
Physical Education in Jackson College
- FRANCIS O'MEARA, M.S. 72 Mapleton St., Brighton
Chemistry
- FRANK WALTER POTE, B.S. 45 Dearborn St., Medford
Physics
- AUGUSTE LAWRENCE POULEUR, M.S. . 60 Powder House Blvd.,
Chemistry W. Somerville
- HAROLD JAMES POWER, B.S. P.O. Box 55
Radio-Engineering
- HARRIS RICE, S.B. 10 Fairmount St., Medford Hillside
Walker Special Instructor in Mathematics

LLOYD PRESTON RICE, A.M.	42 Conant Hall, Cambridge
<i>Political Science</i>	
EDWIN ADAMS SHAW, M.S.	77 Grafton St., Arlington
<i>Education</i>	

Assistants

MARY STONE BRUCE, A.M. . .	Hotel Cluny, 543 Boylston St., Boston
<i>French</i>	
ELEANOR HAYWOOD, A.B.	97 Talbot Ave.
<i>Political Science</i>	
CARL WESTON STAPLES	Chemical Laboratory
<i>Chemistry</i>	
FRANK GUSTAVE WAHLEN	East, 12
<i>Mechanic Arts</i>	
GENEVA ALICE WHEET	Metcalf, C
<i>English</i>	

Administrative Office of the Associated Schools

MASON EDWARD BENNETT	54 Lyman Ave., Medford
<i>Clerk in the Office of the Dean of the Engineering School</i>	
ANITA ELIZABETH BALZER	Gamma House, 7
<i>Assistant in the Office of the Dean of Jackson College</i>	
LESLIE NATHANIEL GEBHARD, LL.B.	11 Edison Ave.
<i>Secretary to the Dean of the Engineering School</i>	
WILHELMINE HAZEL LANGDELL	253 Salem St., Malden
<i>Assistant in the College Office</i>	
IRVING DAVID MARSHALL	71 Summer St., Everett
<i>Drawing</i>	
GEORGE STEWART MILLER, A.M.	145 Forest St., Medford
<i>Secretary to the President</i>	
MARION WARD RAYMENTON	Richardson House, 3
<i>Assistant in the Office of the Dean of Jackson College</i>	
DOROTHY MAY SALTMARSH	17½ Marshall St., Somerville
<i>Stenographic Assistant</i>	
BEULAH SUSIE TILLOTSON	55 High St., Everett
<i>Clerk in the Office of the Dean of the Crane Theological School</i>	
NELLIE ALVIRA WRIGHT	245 Medford St., Somerville
<i>Registrar</i>	

JOSEPH ELLSWORTH POOLE	Chemical Laboratory
<i>Stock Room Clerk in Chemical Laboratory</i>	

Foreman of the Grounds and Buildings

GEORGE WISEMAN HENSON 391 Boston Ave.

House Mistresses

MRS. DOROTHY CHAMBERLAIN

Richardson House

MRS. MARY C. HULL

Gamma House

MISS MARY C. MURRAY

Alpha House

MRS. GRACE G. WATERMAN

Metcalf Hall

Medical Advisers

JOHN ALLAN McLEAN, M.D. 16 Curtis St., W. Somerville

Medical Adviser for the Men's Dormitories

EMMA JULIA WAGNER, M.D. . . . 370 Highland Ave., W. Somerville

Physical Examiner in Jackson College

Russell Lecturer, 1917

MARION LEROY BURTON, PH.D., D.D., LL.D.

President of Smith College

Library Staff

HELEN LOUISE MELLEN 58 Curtis St., W. Somerville

Librarian, Emeritus

ETHEL MUNROE HAYES, A.B. 252 Medford St., Somerville

Acting Librarian

BLANCHE HEARD HOOPER, A.B. 124 Professors Row

Assistant Librarian

FRANCIS JOEL FOSTER Φ Δ House

Cataloguer

ARTHUR EARLE BAIRD Paige, 25

Student Assistant

ALFRED STORER COLE Paige, 19

Student Assistant

HELEN ALMIRA ROWE Richardson, 1

Student Assistant

Curators of Buildings

Ballou Hall Dean Wren

Barnum Museum Professor Neal

Bromfield-Pearson Building Professor Chase

Chapel Professor Lewis

Chemical Laboratory Professor Durkee

Curtis Hall Professor Durkee

Gymnasium Dr. Burnett

Library Miss Hayes

Miner Hall Dean Davies

Packard Hall Dean McCollerster

Robinson Hall Professor Rollins

Women's Gymnasium Dean Davies

The Organization of the Faculties

Each of the Associated Schools has its own Faculty and Standing Committees. An officer may serve on several faculties, and students of several schools may attend one and the same class exercise. Since the several faculties have many interests in common, they unite in joint session as a Faculty of Arts and Sciences.

The Faculty of Arts and Sciences regularly convenes on the first Monday of each month, and has the following Standing Committees :

ADMINISTRATION: President Bumpus, *Chairman*; Deans Wren, Anthony, McCollester, Davies and Fay; Professors Lambert and Hooper.

LIBRARY: President Bumpus, *Chairman*; Dean Fay, Professors Andrews, Hooper, and Gray.

PROGRAM AND EXAMINATIONS: Dean Wren, *Chairman*; Dean Anthony and Professor Denison.

CATALOGUE: Dean Anthony, *Chairman*; Professors Denison and Seavey.

BOOKS AND SUPPLIES: Professor Lewis, *Chairman*; Professors Ashley, Conner, and Mr. Burden.

MEMBERS ON THE PART OF THE FACULTY OF ARTS AND SCIENCES OF THE BOARD OF DIRECTORS OF ATHLETICS: Dean Wren, *Chairman*; Dean Anthony, Dr. Burnett.

STUDENT ORGANIZATIONS AND USE OF COLLEGE BUILDINGS: Professor Hooper, *Chairman*; Dean Anthony, Professors Denison, Rockwell, and Gilmer.

STUDENT EMPLOYMENT: Professor Carroll, *Chairman*; Professors Gilmer and Wilson.

BOARD OF EDITORS OF TUFTS COLLEGE STUDIES: President Bumpus, *Chairman*; Professors Fay, Neal, Metcalf, and Rockwell.

Requirements for Admission

Candidates for admission to the School of Liberal Arts, Jackson College for Women, the Engineering School and the Crane Theological School must have received adequate preparation in certain subjects, aggregating fifteen units which fall in the groups mentioned below. In these groups the values of the several subjects are given in units. Each unit "represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work."

1. Prescribed Group

All of the following, which aggregate 8 units

English 1	1 ½
English 2	1 ½
Foreign Language	2†
History	1‡
Algebra A1	1
Plane Geometry	1

2. Elective Group

A sufficient number of the following to aggregate . . 4 units

Foreign Language 1, or 2, or 3, or 4†	
History	1 or 2‡
Algebra A2	1
Physics	1
Chemistry	1
Solid Geometry	½
Trigonometry	½
Freehand Drawing	½

3. Free Margin Group

This group may be made up of any subjects (not counted in the previous groups) which an approved secondary school counts toward graduation, and which are certified by the Principal to be equivalent to 3 units

Total	15 units
-------	----------

†The foreign languages offered for admission are to be selected from the following: Latin, Greek, French, and German. Two, 3 or 4 units may be counted in Latin, and either 2 or 3 units in Greek, French or German. Any other foreign language in which systematic instruction has been received for a period of at least two years may be counted for 2 units.

‡Ancient History, English History, or History and Government of the United States.

Candidates for the degree of Bachelor of Arts must present either 4 units in Latin or 3 in Greek.

Candidates for admission to the Engineering School must present 2 units in Algebra.

It is recommended that at least 9 of the units presented for admission be confined to three subjects.

Detailed information concerning the amount and character of the work demanded in preparation will be found in the Appendix.

METHODS OF ADMISSION

Admission to Tufts College may be obtained by certificate, by examination, or by a combination of the two. Every candidate for admission must present a testimonial of good character from the principal under whom he was prepared for college.

Admission by Certificate

In order to make the transition from the school to the college more direct, Tufts College has an arrangement with certain high schools whereby students of good standing may pass from the high school directly into the College without the formality of examination. The conditions controlling this arrangement require that the school shall be on the approved list of the New England College Entrance Certificate Board, and that in certain subjects the pupil shall have completed with certificate grade the amount required for admission to the Freshman class of Tufts College.

The principals of the accredited schools are provided with blanks prepared for this purpose.

Certificates showing that candidates have fulfilled the admission requirements of another college or university will be accepted, in so far as they fulfill the conditions controlling admission to Tufts.

The academic diploma of the Regents of the State of New York will be accepted in satisfaction of the requirements for admission when such diploma covers the subjects required for entrance.

The student should make sure that the certificate upon which he intends to enter Tufts College is sent to the Registrar (Tufts College, Mass.) at the earliest possible date — preferably at the time of graduation — and that he receives from the College an acknowledgment assuring him that the certificate has been received and that his name has been enrolled.

All schools in New England which desire the certificate privilege should apply to the Secretary of the Board, Professor Frank W. Nicolson, Wesleyan University, Middletown, Conn., before April 1 of the year for which the certificate privilege is desired.

Applications for the certificate privilege for schools outside of New England should be made by the Principal on a blank provided for the purpose by the Registrar of the College. Applications should be received before April 1, in order that the school may be placed upon the approved list for the next academic year.

Admission by Examination

The examinations may be taken in June or in September, or a part in June and a part in September.

In June, 1917, the admission examinations of this College will be the examinations of the College Entrance Examination Board, of which Tufts College is a member. The examinations will be held during the week June 18–23, 1917, at Robinson Hall, Tufts College, Mass., and at other places to be announced by the Board.

For further information consult the Appendix or communicate with the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y.

The September examinations are prepared and given by Tufts College in accordance with the following schedule.

September, 1917, Examinations for Admission to the Associated Schools

(These examinations will be given in Ballou Hall, Tufts College, Mass.)

- SEPT. 13. Elementary, Intermediate, and Advanced French, 9 to 11; Elementary, Intermediate, and Advanced German, 11 to 1; Elementary and Advanced Greek, Advanced Algebra and Trigonometry, 2 to 5.
- SEPT. 14. Algebra, 9 to 10.30; English, 10.30 to 12.30; Plane Geometry, 2 to 4; Physics, 4 to 5.
- SEPT. 15. Elementary, Intermediate, Advanced Latin and Drawing, 9 to 12; Solid Geometry, 9 to 11; Biology, Botany, Geography, Geology, Zoology, and Economics, 11 to 1; History, 2 to 4; Chemistry, 4 to 5.

Admission from other Colleges

Students of other colleges may be admitted to Tufts College under the following conditions:

They must present evidence that they have maintained creditable and honorable standing. They must present certificates showing in detail the amount and character of their college work. They must give satisfactory reasons for desiring transfer.

Such students will be enrolled as "unclassified" until they have demonstrated their qualifications and scholarship.

General Information

REGISTRATION

Having passed the entrance examinations of June or of September, or having been duly certified, the applicant for admission should at once ask the College office for registration blanks. These blanks should be filled out promptly and with fidelity, and returned to the Registrar, together with the registration fee of five dollars.

The officers of Tufts College take an interest in the welfare of the student, and the value of the advice which they can give is in no small measure dependent upon the fullness with which the registration data are given.

THE FILING OF PROGRAMS

The program is a statement of the several studies that the student desires to pursue, the officers that are to give instruction and the places and hours at which the classes are to meet. Programs are prepared in accordance with the following schedule.

I. FOR STUDENTS IN THE SCHOOL OF LIBERAL ARTS, THE CRANE THEOLOGICAL SCHOOL, AND THE GRADUATE SCHOOL:

9.30 A.M.—On the “opening day” of the term (in September on Thursday, and in February on Monday), those filing their programs for the first time assemble in Room 4, Ballou Hall, at which time the students are assigned to certain officers who act as their advisers in the preparation of their programs. When the programs are prepared, they are filed with the Registrar.

9—11 A.M.—Members of the three upper classes file their programs in accordance with conferences which were held with their major instructors during the previous term.

II. FOR STUDENTS IN JACKSON COLLEGE FOR WOMEN:

11 A.M.—12 M.—On the “opening day” of the term, all students obtain blanks and file programs at the Dean’s office. Members of the three upper classes register in accordance with programs prepared at conference with major instructors held previous to June first.

11.15. A.M.—All students registering for the first time assemble in Room 6, Miner Hall, for instruction concerning registration.

II. FOR STUDENTS IN THE ENGINEERING SCHOOL AND THE BROMFIELD-PEARSON SCHOOL:

11 A.M.—On the “opening day” of the term, those filing their programs for the first time assemble in Goddard Chapel, where information is given concerning courses of study and the preparation of programs.

When the programs are prepared they are filed with the Registrar.

10–12 A.M.—Members of the three upper classes file their programs in accordance with conferences held during the examination period of the previous term.

During the hours set apart for filing of programs, instructors are available for consultation and for the approval of plans of study, in rooms announced on the bulletin board.

Regular program appointments are in force on the second day of each term.

The College desires that its students should begin their work with promptness. Students who are late in registering or in filing their programs cause irregularities and confusion in the administrative office. Upper-class men who are not present on the “opening day” are subject to a registration fee of five dollars.

PROMOTION

Students are not promoted from the Freshman class until they have completed all requirements for admission.

Candidates for the degree of Bachelor of Arts or Bachelor of Science (except in Engineering), before promotion to the Sophomore class, must have received a credit of not less than twenty-four term hours, and for promotion to the Junior class a credit of not less than fifty-four term hours. To become a member of the Senior class, a student must have credit for not less than eighty-seven term hours, and to graduate he must have had a credit of one hundred twenty-two term hours.

Candidates for the degree of Bachelor of Science in Engineering must have received, for promotion to the Sophomore class, a credit of not less than twenty-nine term hours; for promotion to the Junior class a credit of not less than sixty-four term hours; for promotion to the Senior class a credit of not less than ninety-nine term hours, and for graduation a credit of one hundred forty term hours.

GRADES OF SCHOLARSHIP

Scholastic standing is officially recorded as follows: **A**, excellent; **B**, good; **C**, fair; **L**, barely passable; **F**, not passable; **FF**, discreditable. **I** is used when a student for any cause fails to complete a subject.

The marks **I** and **F** impose a condition which must be removed at a date to be determined by the Committee on Promotions. In case marks of **I** or **F** are not so removed, the entry will be changed to **FF**. The responsibility for the removal of any condition rests with the student, who is required to make all necessary arrangements with the instructor and finally to present at the office of the Registrar a statement from the instructor that the work has been performed.

Reports of the work of Freshmen are sent to parents at the close of the first term. Reports for the year are issued in July.

TERMS AND VACATIONS

The year is divided into two terms. College exercises are suspended on certain dates in accordance with the calendar published at the beginning of the catalogue. An examination period of five days is held at the close of each term, during which the daily class exercises are suspended.

Students are not expected to extend their vacations by absenting themselves beyond the limit of the calendar. To prevent this extension they are required, except on holidays, to report in person at the Registrar's office within the two hours following the last class appointment preceding each vacation except at the mid-year intermission; and within two hours before their first class appointment following such vacation. This process is known as "signing off" and "signing on."

A fine of two dollars will be imposed on each student who shall fail to report as above provided. The regular registration at the beginning of each term shall be construed as "signing on."

ABSENCES

Students are required to notify the Registrar of absence from any cause involving more than three consecutive program appointments. This report should, if possible, be made in advance, and should state the cause of absence and the probable duration. After absence, notification should be given the Registrar before entering upon college work.

These reports are for the information of the college authorities, and do not excuse the student from chapel attendance, or from his obligations to the various instructors.

No student organization is allowed to make engagements involving absence from college exercises unless such engagements are first approved by the appropriate committee of the Faculty.

RELIGIOUS OBSERVANCES

Goddard Chapel, erected in 1882-83, is the gift of Mrs. Mary T. Goddard, as a memorial to her husband, Thomas A. Goddard. The week-day exercises are conducted by the College Chaplain, Dr. Edwin C. Bolles. Attendance is required.

The RUSSELL LECTURE, established in accordance with a bequest of James Russell of Arlington, is delivered by either a clergyman or a layman, on a subject prescribed by the testator.

Two subjects are presented, in alternate years.

The subject for 1916 was "*The Importance of Christian Faith and Belief in the Formation of the Character of the Good Citizen and the Good Man.*"

The subject for 1917 is "*The Sufficiency of the Promises of the Gospel to meet the Reasonable Wants of Man both in Time and in Eternity.*"

TUFTS COLLEGE STUDIES

A publication called "Tufts College Studies" has been established, as a means of presenting the results of original work done in the several departments of the College. The numbers, which are issued from time to time, are distributed as exchanges to educational institutions and learned societies. Correspondence regarding exchanges should be addressed to the Librarian of Tufts College.

ATHLETICS

The supervision and direction of all athletic sports is vested in a Board of Directors of Athletics, consisting of nine members, three of whom are appointed from the Faculty, three from the Alumni, and three elected from the Undergraduates. This board through its sub-committees controls the expenditure of moneys, the hiring of coaches, the eligibility of players, and the arranging of games. The Director of the Gymnasium, after physical examination, limits the candidates for college teams to those who have shown themselves qualified to engage in strenuous exercise.

EXPENSES

Realizing that the cost of collegiate instruction may prevent certain students from carrying their education beyond that provided by the public schools, and desiring that the facilities offered by Tufts College shall not be denied those of limited means, the Trustees have, for many years, refrained from making any increase in the charge for tuition.

The buildings, grounds and various endowments of the College have an aggregate value of over \$3,000,000 so that the amount actually paid to the College by any student is only a fraction of the cost of the instruction provided.

The expenses of the student are as follows:

Examination Fee

A fee of five dollars is charged for examining the student, in order to test the thoroughness of his preparation and to determine his fitness for collegiate work.

If the student is examined in June by the College Entrance Examination Board, the fee is sent by the student to the Secretary of the Board, Hamilton Hall, P.O. Sta. H, New York, N. Y.

If the student is examined in September by examiners at Tufts College, the fee is paid to the Bursar of the College before the examination is taken. If the student is examined in both June and September two fees are necessary.

If the student enters "on certificate" or on the "academic diploma" of the Regents of the State of New York, there is no examination fee.

Registration Fee

This charge of five dollars is made but once. It covers the cost of registering the student as a member of the College, and gives provisional enrollment until the courses of study have been arranged. It is a guarantee on the part of the student of his intention to assume the duties and privileges of student-membership in some one of the Associated Schools of the College.

Tuition Fee

The charge for each term or semester of instruction in the several Associated Schools is given in the following table.

School of Liberal Arts	\$62.50
Jackson College for Women	62.50
Engineering School	87.50
Bromfield-Pearson School	75.00
Crane Theological School	50.00
Graduate School	50.00

Before receiving the degree of A.B. or B.S. students must have paid tuition charges for eight terms of instruction. This regulation applies whether the time actually consumed is three, four or more college years.

In the case of students admitted to advanced standing the fees will be prorated.

Fees For Gymnasium And Student Organizations

By request of the student body, the Bursar has been instructed to collect assessments for the maintenance of student activities, such as field-sports, the college *Weekly*, reading room, etc. These are combined with the gymnasium fee and amount to \$12.00 for the first term and \$5.00 for the second term. Each student is put on the subscription list of the *Tufts Weekly*, and receives a season ticket admitting him to the intercollegiate contests.

Room Rent

Students may or may not reside on the campus. It is customary for a dormitory room, or suite of rooms, to be occupied by two students. Each pays one-half rent, which, including heat and services, ranges from \$12.50 to \$40.00 per term. The rooms may be occupied from the Wednesday of the week preceding the opening of the College year to the Saturday following Commencement. Except in Paige Hall, students provide their own furniture.

The students are custodians of the rooms and dormitories in which they reside. Injury to the rooms or buildings other than normal wear is charged to the occupants.

Non-resident students may obtain the use of "day rooms" upon the payment of a moderate fee. The rooms are assigned by the Bursar, under regulations approved by the Board of Trustees. All correspondence connected with the engagement and assignment of rooms should be addressed to the Bursar.

Room rent in the several dormitories may be tabulated as follows; the prices given are the rate per student per term.

Dormitories For Men

Double Rooms

	Curtis	Dean	East	Paige	West	Total
\$13.75	.	.	2	.	.	2
15.00	.	.	2	.	.	2
18.50	.	.	.	.	2	2
20.00	2	.	4	.	2	8
21.50	6	2	4	.	.	12
22.50	1	.	1	.	.	2
23.00	.	.	2	.	2	4
24.00	.	.	1	.	6	7
25.00	1	.	5	.	2	8
25.50	.	.	1	.	2	3
27.50	.	.	5	.	.	5
29.50	.	.	1	.	2	3
32.00	.	.	.	.	6	6
35.00	.	.	.	.	4	4
37.50	.	.	.	.	2	2
40.00	.	12	.	.	2	14
Total Double Rooms	10	14	28	0	32	84

Single Rooms

\$12.50	.	.	.	.	1	1
15.00	.	.	1	.	.	1
20.00	.	.	3	.	.	3
21.50	.	.	2	.	.	2
22.50	1	.	.	.	.	1
25.00	1	.	.	.	.	1
37.50	.	.	.	36	.	36
Total Single Rooms	2	0	6	36	1	45
Total	12	14	34	36	33	129

General Maintenance Fee

To defray a part of the cost of maintaining buildings and grounds, students are assessed five dollars per term. This fee is included in the rental charges of those residing at the College.

Laboratory and Other Fees

Students taking laboratory courses in Geology, Mineralogy, Chemistry or Biology are charged four dollars per term for material regularly consumed. The cost of breakage is collected at the close of the term. Before graduation, seniors are charged two dollars to cover the cost of the diploma.

THE TIMES AT WHICH COLLEGE PAYMENTS ARE MADE

All term bills must be paid in advance, and the College prefers to have the charges of the entire term paid at the time of registration, or before the date of the opening of the term. Realizing, however, that it is sometimes difficult for those who are working their way to comply with this regulation, it permits, for the present, the following schedule, to the terms of which it is obliged rigidly to adhere:

First Term

On or before October 1, \$50, On account.

“ “ November 1, Balance of term bill.

Second Term

On or before February 15, \$50, On account.

“ “ March 1, Balance of term bill.

All college charges are collected by the Bursar. Checks should be made payable to the Trustees of Tufts College. Promotions, degrees and letters of honorable dismissal cannot be granted to those in arrears.

A student may be suspended or dismissed for failure to keep his bills promptly paid, or for other good and sufficient cause.

No part of the fees and charges for a term is returnable to the student if he leaves during the term.

SCHOLARSHIPS

Tufts College has been singularly blessed in that many of its friends have given various sums, the interest on which is awarded to students who find it difficult to meet all of the financial exactions of college training.

Scholarships are awarded by the Trustees on the recommendation of the Faculty. The Faculty desires to become acquainted with the students before making its recommendation, and it therefore advises those who are coming to the College for the first time and who feel that they must have scholarship aid, to make early request to the Registrar for a scholarship application blank and to fill in this blank and mail it to the Chairman of the Scholarship Committee prior to the beginning of the term.

The student should, if possible, be prepared, himself, to meet the first payment of the term, — that is, the payment due October 1, or February 15. After the scholarship has been awarded, it will be credited to the second payment and reduce this amount accordingly.

In the year 1915-16 the Trustees distributed approximately \$12,000 to students in good standing. During the first term of the year 1916-17 scholarship awards were made as follows:

89 awards of \$25.00 each				
3	"	"	37.50	"
29	"	"	50.00	"
3	"	"	62.50	"

Scholarship aid will depend upon the student's need and the grade of his work. His obligations to the College must be met promptly, his attendance must be regular, and his influence on the student body must be in every sense wholesome. His loyalty to the College and his sense of common gratitude should dictate that as soon as possible after graduation he return to the College the several sums that he has received in order that others in need may be assisted in their efforts to obtain privileges similar to those that he has enjoyed.

The scholarships and the amount of the endowment are here listed.

THE STATE SCHOLARSHIPS. (3)

Established in 1859 in accordance with a resolve of the Commonwealth.

THE A. A. MINER SCHOLARSHIP.

\$1,000

Founded in 1864 by Alonzo Ames Miner, D.D., of Boston.

- THE HOWLAND SCHOLARSHIPS.** (5) \$10,366.87
Established in 1865 from the income of the bequest of Edwin Howland, of South Africa.
- THE WALKER MATHEMATICAL SCHOLARSHIPS.** (5)
Established in 1865 in honor of William J. Walker, M.D., of Newport, R. I., and payable from the income of the Walker Fund.
- THE PERKINS SCHOLARSHIP.** \$1,000
Founded in 1866 by James D. Perkins, of New Rochelle, N. Y.
- THE MOSES DAY SCHOLARSHIPS.** (2) \$4,000
Founded in 1880 by Moses Day, of Roxbury.
- THE MOSES DAY SCHOLARSHIP.** \$1,000
Founded in 1880 by Moses Day, of Roxbury.
- THE ANDERSON SCHOLARSHIP.** \$2,000
Founded in 1890 by John M. Anderson, of Salem, in the name of John M. and Rebecca Anderson.
- THE WILLIAM OSCAR CORNELL SCHOLARSHIP.** \$2,500
Founded in 1890 by William Oscar Cornell, of Providence, R. I.
- THE MARTHA GOLDTHWAITE MEMORIAL SCHOLARSHIP.** \$2,000
Founded in 1890 by Willard Goldthwaite, of Salem.
- THE A. A. MINER SCHOLARSHIP.** \$2,000
Founded in 1890 by Alonzo Ames Miner, D.D., of Boston.
- THE NORCROSS SCHOLARSHIP.** \$2,000
Founded in 1890 by James A. and Mrs. Mary E. Norcross, of Worcester.
- THE REBECCA T. ROBINSON SCHOLARSHIP.** \$2,000
Founded in 1890 by Charles Robinson, LL.D., of Newton.
- THE LAURA A. SCOTT SCHOLARSHIP.** \$2,000
Founded in 1890 by Mrs. Laura A. Scott, of Ridgefield, Conn.
- THE STOW SCHOLARSHIP.** \$2,000
Founded in 1890 by Mrs. Eugenia D. Stow, of Meriden, Conn.
- THE TALBOT SCHOLARSHIP.** \$2,000
Founded in 1890 by Newton Talbot, of Boston.
- THE TRAVELLI SCHOLARSHIP.** \$2,000
Founded in 1890 by Mrs. Emma R. Travelli, of Newton.
- THE AMASA AND HANNAH L. WHITING SCHOLARSHIP.** \$2,000
Founded in 1890 by Mrs. Hannah L. Whiting, of Hingham.
- THE WHITTIER SCHOLARSHIP.** \$2,000
Founded in 1890 by Charles Whittier, of Roxbury, in the name of Charles and Eliza Isabel Whittier.

THE MARIA P. WINN SCHOLARSHIP.	\$2,000
Established in 1890 from a bequest of Mrs. Maria P. Winn, of Woburn.	
THE HOSEA BALLOU, 2D, MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Mrs. Mary T. Goddard, of Newton.	
THE HENRY F. BARROWS SCHOLARSHIP.	\$2,000
Founded in 1891 by Henry F. Barrows, of North Attleboro.	
THE EDWIN H. CHAPIN MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by friends of Edwin Hubbell Chapin, D.D., of New York City.	
THE ANDREW J. CLARK MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Mrs. Abbie B. Clark, of Orange.	
THE HENRY E. COBB SCHOLARSHIP.	\$2,000
Founded in 1891 by Henry E. Cobb, of Boston.	
THE COUSENS SCHOLARSHIP.	\$2,000
Founded in 1891 by John E. Cousens, of Brookline, in the name of John E. and Sarah C. Cousens.	
THE THOMAS A. GODDARD MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Mrs. Mary T. Goddard, of Newton.	
THE J. H. MORLEY MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Herbert Small Morley, of Templeton.	
THE ELLERY E. PECK MEMORIAL SCHOLARSHIP.	\$2,500
Founded in 1891 by Henry Rollins, of Bangor, Me.	
THE SARAH E. SAYLES MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Albert W. Sayles, of Lowell.	
THE BENJAMIN F. SPINNEY SCHOLARSHIP.	\$2,000
Founded in 1891 by Benjamin F. Spinney, of Lynn.	
THE SIMONS MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Mrs. Mary A. Simons, of Manchester, N. H., in memory of Hiram H., Augustus, and Frank Simons.	
THE MARY ANN WARD SCHOLARSHIP.	\$2,000
Founded in 1892 by Sylvester L. Ward of Boston.	
THE SIMMONS SCHOLARSHIPS. (2)	\$4,000
Founded in 1895 by Robert F. Simmons, of Attleboro, in the name of Mary F. and Robert F. Simmons.	
THE JOHN B. PERKINS SCHOLARSHIP.	\$2,000
Founded in 1896 by Ann Maria Perkins, of Medford.	
THE JOSHUA S. AND HARRIET N. WHITE SCHOLARSHIP.	\$2,000
Founded in 1896 by Joshua S. White, of Pawtucket, R. I.	
THE BARNARD SCHOLARSHIPS. (3)	\$7,000
Founded in 1897 by Mrs. Caroline M. Barnard, of Everett.	

THE BARTLETT SCHOLARSHIP.	\$2,000
Founded in 1897 by Mrs. Nancy Bartlett, of Milford.	
THE B. H. DAVIS SCHOLARSHIP.	\$2,000
Founded in 1897 by the Rev. B. H. Davis, of Weymouth, for the benefit of students of the School of Liberal Arts who are preparing to enter the Christian ministry.	
THE LATIMER W. BALLOU SCHOLARSHIP.	\$2,000
Founded in 1898 by Latimer W. Ballou, of Woonsocket, R. I.	
THE JOSEPH D. PEIRCE MEMORIAL SCHOLARSHIP.	\$1,250
Founded in 1898 by the children and other relatives of J. D. Peirce, D.D., of Attleboro.	
THE JOSEPH H. WALKER SCHOLARSHIP.	\$1,000
Founded in 1898 by Joseph H. Walker, of Worcester.	
THE RHODE ISLAND SCHOLARSHIP.	\$2,100
Founded in 1899 by several persons in Rhode Island.	
THE GEORGE C. THOMAS SCHOLARSHIP.	\$1,000
Founded in 1899 by George C. Thomas, of Philadelphia, Pa.	
THE ALBERT W. SAYLES SCHOLARSHIP.	\$1,466
Founded in 1899 by Albert W. Sayles, of Lowell.	
THE NATHANIEL WHITE SCHOLARSHIP.	\$1,200
Founded in 1899 by Armenia S. White, of Concord, N. H.	
THE LIZZIE P. ALLEN SCHOLARSHIP.	\$2,000
Founded in 1900 by Lizzie P. Allen, of Derby Line, Vermont.	
THE LIZZIE P. ALLEN SCHOLARSHIP.	\$1,000
Founded in 1900 by Lizzie P. Allen, of Derby Line, Vermont.	
THE CHARLES AND FANNIE A. MINER BOOTH SCHOLARSHIPS. (2)	\$5,000
Founded in 1900 by Charles Booth, of Springfield, Vermont.	
THE LUTHER GILBERT SCHOLARSHIP.	\$2,000
Founded in 1902 by Mrs. Luther Gilbert, of Roxbury.	
THE JAMES M. AND EMILY COOK SCHOLARSHIP.	\$2,000
Founded in 1903 by Henrietta J. States, of Boston.	
THE WILLIAM H. SHERMAN SCHOLARSHIP.	\$2,000
Founded in 1903 by William H. Sherman, of Cambridge.	
THE DAVIS COOK SCHOLARSHIP.	\$2,000
Founded in 1904 by Davis Cook, of Cumberland, R. I.	
THE MARY A. RICHARDSON SCHOLARSHIP.	\$2,500
Founded in 1904 by Mrs. Mary A. Richardson, of Worcester.	
THE AUSTIN B. FLETCHER SCHOLARSHIP.	\$2,000
Founded in 1905 by Austin Barclay Fletcher, of New York City.	

THE WARREN SCHOLARSHIPS. (2)

Founded in 1905 by Dr. Ira Warren of Boston.

THE MARY L. GROCE SCHOLARSHIP.

\$2,000

Founded in 1906 by Mary L. Groce, of Roxbury.

THE JONAS CLARK WELLINGTON SCHOLARSHIP.

\$2,500

Founded in 1906 by Mrs. Sarah C. Fisher Wellington, of Cambridge.

THE JOHN MURRAY SPRAGUE AND ELIZA FLETCHER SPRAGUE SCHOLARSHIP.

\$2,000

Founded in 1908 by John Sprague, of Lowell.

THE GEORGE STEVENS BALLARD SCHOLARSHIP.

\$2,000

Founded in 1910 by Caroline D. M. Ballard, of Augusta, Me.

THE RICHARD PERRY BUSH SCHOLARSHIP.

\$2,000

Founded in 1910 by Mrs. Caroline M. Barnard, of Everett.

THE HANNAH S. MOULTON SCHOLARSHIPS. (4)

\$10,150

Founded in 1914 by Hannah S. Moulton of Kensington, N. H.

THE BACON SCHOLARSHIP.

\$2,500

Founded in 1915 by Mrs. Cyrus V. Bacon, of Hingham

THE JAMES O. CURTIS SCHOLARSHIP.

\$1,000

Founded in 1915 by Betsy B. Curtis, of Medford

THE TRUSTEE SCHOLARSHIPS.

A limited number of special scholarships of one hundred dollars each are available for needy students in the School of Liberal Arts who reside in college dormitories.

LOAN FUNDS

The College is enabled, through the generosity of certain benefactors, particularly through the gift of Dr. Ira Warren, to make loans in small amounts. It is the preference of the College to limit the loaning of money to the members of the Senior class. Applications should be made to the Chairman of the Scholarship Committee.

ACADEMIC HONORS, PRIZE SCHOLARSHIPS, AND PRIZES

On the third Wednesday in November, the associated schools meet the several Faculties in Goddard Chapel in academic convocation. At this time public announcement is made of those who have been selected to represent the Senior class on the commencement platform, and of the recipients of prize scholarships and prizes.

The following Prize Scholarship Funds have been established and scholarships from the income are awarded under special conditions:

THE GREENWOOD PRIZE SCHOLARSHIP IN ORATORY. \$1,000

Founded in 1877 by Mrs. Eliza M. Greenwood, of Malden, and given to such student as shall have made, as the result of faithful work, together with at least a fair degree of attainment, the greatest improvement in Oratory.

THE WENDELL PHILLIPS MEMORIAL SCHOLARSHIP. \$1,501

Founded in 1895 to perpetuate the name, fame, and influence of Wendell Phillips. This scholarship is to be awarded to a student who has completed the Freshman and Sophomore years, and he is to have the benefit of it during the remainder of his course. The beneficiary must be of sound body, high character, and ability in declamation and debate, and must comply with certain special conditions, including participation in a competitive debate of the applicants at the end of the Sophomore year. The specific conditions governing the award of this scholarship may be obtained by those intending to apply therefor from the Secretary of the Faculty, to whom application should be made early in the Sophomore year. The income of this scholarship is at present seventy dollars.

THE MOSES TRUE BROWN SCHOLARSHIP. \$1,000

A scholarship founded in 1903 by Moses True Brown, of Sandusky, Ohio, formerly Professor of Oratory in Tufts College, for encouraging and assisting worthy students in the department of Oratory.

THE PRIZE SCHOLARSHIP OF THE CLASS OF 1898.

The sum of fifty dollars is given annually by the Class of 1898 to that Senior who at the end of the Junior year shall have maintained the highest excellence in a course of study broadly and wisely chosen.

THE PRIZE SCHOLARSHIP OF THE CLASS OF 1882.

The sum of one hundred dollars is given annually by the class of 1882 to that member of the College who best exemplifies the combination of ability in athletics and excellence in scholarship.

The following prizes are awarded:

THE GODDARD PRIZES.

Three prizes of fifteen dollars each are assigned annually from the Goddard Prize Fund. In 1916-17 these prizes will be awarded in the departments of German, History and Physics, under the following conditions:

German.—A prize for the best examination on the dramatic works and theories of Lessing, by a member of the Junior or Senior class. The preparatory study will call for the reading, in addition to the plays covered in class, of Lessing's earlier dramas and assigned chapters of his "Hamburgische Dramaturgie,"

History.—A prize for the undergraduate student who shall show by his work in the department the most complete comprehension of the purposes of the courses in History and Public Law.

Physics.—The prize will be awarded to that student in either Physics 24-7 or 31-7 who, during the year, becomes most proficient in experimentation.

THE RHETORICAL PRIZES.

Three prizes are awarded as follows: A first prize of forty dollars, a second prize of thirty dollars, and a third prize of twenty dollars. The preliminary competition will be open to all candidates for the degree of A.B., B.S., and S.T.B. The rhetorical prizes are awarded by a committee, chosen by the Faculty, who judge the work presented by the competitors upon the public day appointed for that purpose. In order to enter the public competition, candidates, as well as their selections, must be approved by the Instructor in Oratory. A preliminary competition is held about ten days before the competition announced in the calendar, at which a committee of the Faculty determine the contestants in the final and public readings.

THE DE WITT C. TOMLINSON PRIZES.

Founded by Rev. Irving C. Tomlinson, of Brookline, Mass. Two prizes of thirty and twenty dollars respectively, for the two best essays on the subject of "The Ministry of Christ Jesus." The award of prizes must take into account (1) literary merit; (2) evidence of thorough study, clear insight, and unbiased understanding of the Biblical records of the ministry of Christ Jesus; (3) the treatment of the public and private ministration to those of his own time; (4) the treatment of the universal application of his ministry to all human needs, and (5) the treatment of the means by which the benefits of his ministry may be appropriated by his followers. These prizes are open to Seniors in The School of Liberal Arts, the Engineering School, the Theological School, and Jackson College, and to members of the Graduate School. Details as to conditions of competition may be obtained at the Registrar's office.

The foregoing prizes are not awarded, unless in the opinion of the respective judges there is sufficient merit in the several contests to warrant their distribution.

HONORS

FINAL HONORS IN THE SCHOOL OF LIBERAL ARTS AND JACKSON COLLEGE may be conferred at Commencement upon any member of the graduating class who shall have attained Grade A in approved subjects aggregating not less than eighteen term hours in a major department, and an average of Grade B in eighteen hours of allied subjects. Subjects marked with an asterisk (*) or with a double asterisk (**) will not be counted for Honors. Final Honors will be conferred only upon recommendation of the head of the department in which Honors are desired.

HONORABLE MENTION IN THE SCHOOL OF LIBERAL ARTS AND JACKSON COLLEGE will be made, at Commencement, of any student who has attained, during the two years immediately preceding graduation, Grade A in nine term hours and not less than Grade B in three additional term hours of approved work in one department. Subjects marked in the Catalogue with an asterisk (*) or with a double asterisk (**) are under the conditions explained above as applying to Final Honors.

Candidates for Honorable Mention are expected to report to the Office on or before May 1 the department or departments in which they look for such distinction.

FINAL HONORS IN THE ENGINEERING SCHOOL will be conferred at Commencement upon any member of the graduating class who shall have attained credits in his major department aggregating not less than eighteen term hours of Grade A and nine term hours of Grade B.

HONORABLE MENTION IN THE ENGINEERING SCHOOL will be made at Commencement of any student who has attained in any major department during the two years immediately preceding graduation, Grade A in nine term hours and not less than Grade B in six term hours.

* Honors and Honorable Mention will be given in the five major departments in the Engineering School subject to the following conditions: 45-1, 45-2, and 45-12, Applied Mechanics, may be counted in all departments, and no subject in the curriculum of the Freshman and Sophomore years may be counted in any department. Save as specified above the subjects in the Civil Engineering department will include those numbered (41); in the Structural Engineering department, those numbered (45) and (47); in the Mechanical Engineering department, those numbered (51); in the Electrical Engineering department, those numbered (61); and in the Chemical Engineering department, those numbered (35).

HOSPITAL

The College is the holder of a bed in the Somerville Hospital and its resident students in case of illness (except contagious diseases) are entitled to the benefits thereof without cost. Arrangements must be made through the college office.

INSURANCE

Arrangements may be made through the Bursar's office whereby students in any of the dormitories may insure their personal effects, including books, furniture, and wearing apparel. The cost of such insurance is fifty cents for \$100 per year.

COMMITTEE ON STUDENT EMPLOYMENT

It is the object of the committee on student employment to inform students concerning positions which may give regular occupation during available hours of term time, or which may be temporarily filled during the vacation periods. Students who wish to make application for any occupation should register their names, with a statement of their qualifications for any special work, with Professor H. H. CARROLL, Chairman of the Employment Committee, Bromfield-Pearson Building.

*The classes of 1917 and 1918 will be governed by the regulations published in the Engineering Bulletin for 1916-17.

Buildings and Equipment

LIBRARIES

The library building, erected through the gift of Mr. Andrew Carnegie, is called the Eaton Memorial Library, in honor of Charles Henry Eaton, '74, former pastor of the Church of the Divine Paternity, New York City.

In all, about seventy-five thousand bound volumes and sixty-seven thousand pamphlets are available for use. The College regularly receives more than two hundred periodicals. A reading-room, maintained by the students, supplies the daily and weekly papers. Separate rooms have been provided with facilities for the use of students working in the departments of History and Public Law, the Ancient Languages, the Modern Languages, Music, English, the Fine Arts, Philosophy, Political Science, Physics and Mathematics. The average annual increase by donation and purchase, for the last five years, has been about two thousand four hundred volumes.

In the general library is the collection of the Universalist Historical Society (six thousand volumes and several thousand pamphlets), to which, on application, students have access. In Packard Hall is a selected reference library, for the use of theological students. In the Barnum Museum is the department library of Natural History, numbering more than four thousand volumes and over ten thousand pamphlets. The Metcalf Musical Library is divided between the music rooms in Goddard Gymnasium, where the scores are kept, and the department room in the Eaton Memorial Library, which contains a collection of works relating to music. About four hundred representative musical compositions, in form for use upon the automatic instruments in the music rooms, are available to students.

The library building is open to all members of the College daily except Sundays and holidays, from 8.00 A.M. to 5.30 P.M.

BARNUM MUSEUM

The Barnum Museum of Natural History was built in 1883-84 by Phineas T. Barnum, who gave the College a fund for its maintenance and for additions.

The College is also indebted to Mr. Barnum for the larger portion of its zoological collection. This serves to illustrate all groups of the animal kingdom, and is especially rich in skeletons and mounted skins of mammals, the whole being well adapted for the purposes of instruction. The botanical collection consists of an herbarium containing a representation of the flora of New England, besides many specimens from Europe and the southern and western States. The geological collection has been selected with care and the mineralogical collection contains many fine examples.

The laboratories and lecture-rooms of the departments of Zoology, Botany and Geology are in the Museum building. The geological laboratory is provided with petrological microscopes, instruments for making rock sections, etc. The mineralogical laboratory possesses the apparatus necessary for the determination of minerals, the analysis of ores, and assay work. The biological laboratories for elementary work are furnished with all necessary facilities, while the laboratory for advanced and research work has all the appliances needed for investigation in anatomy, histology, and embryology.

GODDARD GYMNASIUM

Goddard Gymnasium, the gift of Mrs. Mary T. Goddard, is fitted with the apparatus usually seen in modern gymnasiums, including facilities for light and heavy gymnastics, fencing, wrestling, basket ball, base ball, and indoor athletic sports.

The third floor is occupied by the Department of Music.

ATHLETIC FIELD

Tufts College Athletic Field is the large inclosed field on College Avenue, where inter-collegiate contests are played. It includes a field house, two base-ball diamonds, a foot-ball field, and a quarter-mile, twenty-foot cinder track. Tennis-courts and a separate gymnasium are provided for women students.

CHEMICAL BUILDING

The building of the department of Chemistry contains laboratories for general inorganic, organic, analytical, and metallurgical chemistry, a large lecture-room, library, and weighing room, and the private laboratories of the professors in charge. The rooms are provided with modern laboratory conveniences, and are well supplied with apparatus and chemicals.

ROBINSON HALL

Robinson Hall, a memorial to Charles Robinson, is designed for the use of the Engineering School. It contains the laboratories for the Departments of Physics and Electricity and some of the laboratory equipment for the Departments of Civil and Mechanical Engineering. Beside these laboratories there are recitation rooms, a lecture hall and offices for the instructors and the Dean of the Engineering School. The drafting rooms for Civil and Structural Engineering are also in this building.

BROMFIELD-PEARSON BUILDING

The Bromfield-Pearson Building, built from funds given by Henry Bromfield Pearson, is largely used by the Department of Drawing and Mechanic Arts. It contains the library and offices of the Department of Mechanical Engineering.

ENGINEERING LABORATORIES

The engineering laboratories are supplied with power and light from a Harrisburg Standard engine directly coupled to a direct current General Electric generator.

The Civil Engineering Laboratories contain the Cement and Highway testing apparatus including abrasion machines for paving material and the machines for testing cement and other highway materials. The surveying apparatus includes a very complete and varied equipment of transits, levels, plane tables, sextants, compasses, and the usual auxiliary apparatus.

The Hydraulic Laboratory is equipped with a 600 gallon Worthington duplex steam pump, a 300 gallon Lawrence centrif-

ugal pump, steam pulsometer, Pelton water wheel and a Gould hydraulic ram. A 4500 gallon channel serves for supply and discharge from the several pumps and contains the weirs and necessary apparatus for the measurement of water.

In the Electrical Laboratories will be found the usual equipment of measuring instruments, dynamos, etc. required for courses in general electrical testing. While the greater part of this is standard apparatus certain of the most useful pieces were specially designed and constructed in the college shops by students in the electrical engineering course. A recent addition to the laboratories is a complete common battery telephone exchange consisting of a three position switch-board with the customary power plant and terminal room equipment. This apparatus is designed particularly for instruction purposes, but is also arranged to be representative of standard installation practice.

The Mechanical Engineering Laboratory equipment includes a Corliss engine with Admiralty condenser, a 15 Kilowatt Curtiss steam turbine and a variety of smaller engines, stationary and marine, of the plain slide valve, piston valve and riding cutoff valve types. There are gas and gasoline engines of from one to four cylinders representing a variety of makes. An automobile and motorcycle testing plant is also included in the equipment. Absorption and brake dynamometers are used for the measurement of power and other machines are provided for oil testing, compressed air and fan tests. The laboratory equipment for experimental mechanics includes testing machines from 10,000 to 150,000 capacity.

SCHOOL OF LIBERAL ARTS

FRANK GEORGE WREN, A.M., Dean

Standing Committees

CURRICULUM: Dean Wren, *Chairman* ; Professors Durkee, Fay, Gray, and Schmidt.

PROMOTIONS: Dean Wren, *Chairman* ; Professors Andrews, Denison, Durkee, and Reed.

Faculty of the School of Liberal Arts

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D., PRESIDENT

FRANK G. WREN, A.M., DEAN

Walker Professor of Mathematics

WILLIAM H. REED, A.M., RECORDING SECRETARY

Assistant Professor of Modern Languages

Professors

Arranged in the order of their service at Tufts College

CHARLES E. FAY, A.M., LITT.D.

Wade Professor of Modern Languages

FRANK W. DURKEE, A.M.

Chemistry

LEO R. LEWIS, A.M.

History and Theory of Music

FRED D. LAMBERT, PH.D.

Botany

WILLIAM K. DENISON, A.M.

Latin Language and Literature

*HENRY C. METCALF, PH.D.

Jackson Professor of Political Science

EDWIN C. BOLLES, PH.D., D.D., LL.D.

Dickson Professor of English and American History

WILLIAM R. RANSOM, A.M.

Mathematics

ALFRED C. LANE, PH.D., SC.D.

Pearson Professor of Geology and Mineralogy

HENRY I. CUSHMAN, A.M., D.D.

Homiletics

HINCKLEY G. MITCHELL, D.D.

Hebrew and Old Testament Exegesis

ARTHUR I. ANDREWS, PH.D.

History and Public Law

KARL SCHMIDT, PH.D.

Philosophy and Education

LEE S. MCCOLLESTER, S.T.D.

Packard Professor of Christian Theology

* (On leave of absence.)

HERBERT V. NEAL, PH.D.

Zoology

CLARENCE R. SKINNER, A.M.

Applied Christianity

CHARLES H. GRAY, PH.D.

English

Assistant Professors

Arranged in the order of their service at Tufts College

ALEXANDER DILLINGHAM, A.M.

Mathematics

ALBERT H. GILMER, A.M.

English

HENRY H. MARVIN, PH.D.

Physics

EUGENE H. BABBITT, A.B.

Modern Languages

RALPH B. WILSON, A.M.

Political Science

WILLIAM F. WYATT, PH.D.

Greek

Instructors

CROSBY F. BAKER, M.S.

Chemistry

LOUIS R. BURNETT, M.D.

Physical Education

JOSEPH CHANDLER, PH.D.

Organic Chemistry

JOHN L. C. KEEGEN, A.M.

English

NATHANIEL H. KNIGHT, B.S.

Physics

FRANK W. POTE, B.S.

Physics

AUGUSTE L. POULEUR, M.S.

Chemistry

HARRIS RICE, S.B.

Walker Special Instructor in Mathematics

LLOYD P. RICE, A.M.

Political Science

EDWIN A. SHAW, M.S.

Education

CARL W. STAPLES, B.S.

Chemistry

Courses of Instruction

In order that the student may pursue studies that are properly correlated and are at the same time adapted to his individual needs and attainments, he is first assigned to a member of the Faculty who acts during the Freshman year as his adviser. The adviser, having ascertained the qualifications and the ambitions of the student, explains to him the several courses of study. The student, prior to May 15, selects as his major department the one in which he plans to do the greater amount of his work. The major instructor of that department acts as the student's adviser during the remainder of his course. The Committee on Promotions has final authority over all plans of study. There are at the present time twelve major departments, each having major instructors as follows:

Department	Major Instructor
Biology	Professor Lambert or Neal
Chemistry	Professor Durkee
English	Professor Gray
French	Professor Fay
German	Professor Fay
Greek	Professor Wyatt
History and Public Law	Professor Andrews
Latin	Professor Denison
Mathematics	Professor Wren
Philosophy and Education	Professor Schmidt
Physics	Professor Marvin
Political Science	Professor Metcalf

The courses offered are as follows:

- I. A general course, leading to the degree of Bachelor of Arts or Bachelor of Science.
- II. A course leading to the degree of Bachelor of Science in Chemistry.

GENERAL COURSE LEADING TO THE DEGREE OF BACHELOR OF ARTS OR BACHELOR OF SCIENCE

Required of All Students

	Hours *
English	6
Mathematics	6
Biology, Chemistry, or Physics	6
Physical Education	2
French, or German, of which at least six hours shall be above intermediate grade.	

Candidates for A.B. must also complete six hours in Greek or Latin.

Majors and Minors

Each candidate for a bachelor's degree must have completed a major in one of the following groups and a minor in each of the two other groups. The purpose of this requirement is that each student shall do a considerable amount of work in one group of studies and at the same time have a reasonable amount of training in the two other groups.

Group 1	Group 2	Group 3
English	Biology	History and Public Law
French	Chemistry	Philosophy and Education
German	Mathematics	Political Science
Greek	Physics	
Latin		

* Geology or Mineralogy may be included as a part of the major or minor in an allied science.

A major consists of not less than eighteen hours' work in a single department, but certain subjects, particularly those that are introductory, do not have major value, and, therefore, cannot be counted in composing the eighteen-hour requirement. In the following description such subjects are marked with an asterisk (*) or double asterisk (**).

A minor consists of not less than twelve hours' work in a single department, and may include introductory subjects but a subject marked with a double asterisk (**) cannot be counted in composing the twelve-hour requirement.

* Each department offers a series of subjects for study. The unit indicating the requirements is the *hour*, which represents a subject pursued one hour a week for a term or one half-year. Thus a subject calling for three hours a week for one term represents a requirement of three hours; if it calls for three hours a week for one year, or two terms, the requirement in that subject is six hours.

The regular Freshman program is as follows:

For A.B.		For B.S.	
	Hours		Hours
English	6	English	6
Mathematics	6	Mathematics	6
Biology, Chemistry, or Physics	6	Biology, Chemistry, or Physics	6
Greek or Latin	6	French or German	6
Elective	6	Elective	6
Physical Education	1	Physical Education	1

The Elective of the Freshman year may be chosen from one of the following departments :

Biology	Greek
Chemistry	History
English	Latin
French	Physics
German	Political Science

Students who desire to begin preparation for a definite vocation may arrange continuous courses of study leading to the degree of A.B. and B.S. which will combine special fitness for a chosen field with the general training that every educated man should have.

Those preparing for definite vocations or professions should select major subjects as follows :

Vocation	Major Subjects
Business	Political Science
Consular and Foreign Service . . .	History and Public Law
Forestry	Biology
Journalism	English
Law	History and Public Law
Medicine	Biology

Those desiring to teach should select as a major the subject in which they intend to specialize and should confer with the Department of Education.

II. COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY

The following subjects have been selected and arranged to prepare students for positions in metallurgical laboratories, as chemists with manufacturers or in analytical laboratories, or as assistant chemists for immediate service in the various departments of the United States government. This course may be followed also by those who wish to teach or to do graduate work in Chemistry.

FRESHMAN YEAR			
FIRST TERM		SECOND TERM	
	Hours		Hours
English 1	3	English 2	3
Mathematics 14-21	2	Mathematics 14-21	2
Graphics 21-21	1	Graphics 21-21	1
Physics 1	3	Physics 1	3
German	3	German	3
Chemistry 1	3	Chemistry 1	3

SOPHOMORE YEAR			
FIRST TERM		SECOND TERM	
	Hours		Hours
German	3	German	3
Chemistry 35-2	2	Chemistry 35-3	2
Chemistry 4	3	Chemistry 4	3
Physics 21	2	Physics 21	1
Physics Laboratory 24-7	1	Physics Laboratory 24-7	2
<i>Electives</i>		<i>Electives</i>	
Mathematics		Mathematics	
English		English	
Biology		Biology	

JUNIOR YEAR			
FIRST TERM		SECOND TERM	
	Hours		Hours
Chemistry 5	3	Chemistry 5	3
Chemistry 9	1	Chemistry 7	2
Chemistry 35-10	4	Chemistry 35-10	4
Political Science 1	3	Political Science 1	3
Mineralogy 1	3		
<i>Electives</i>		<i>Electives</i>	
German		German	
English		English	
Mathematics		Mathematics	
History 1		History 1	
Biology		Biology	
		Crystallography	

SENIOR YEAR			
FIRST TERM		SECOND TERM	
	Hours		Hours
Chemistry 11	3	Chemistry 11	3
Chemistry 17	3	Chemistry 17	3
Thesis	3	Thesis	3
Geology 5	3	Geology 23	1
		Geology 24	2
		Chemistry 8	1
<i>Electives</i>		<i>Electives</i>	
Biology		Biology	
Chemistry 12		Chemistry 12	
Political Science		Political Science	
Dynamo-Electric Machinery			

SYNOPSIS OF THE REQUIREMENTS FOR GRADUATION

(1) The requirement for the degree of Bachelor of Arts or Bachelor of Science is the satisfactory completion of subjects aggregating one hundred twenty-two term hours, including physical education.

(2) Students are required to attain for graduation a grade of at least C in seventy-two term hours.

(3) Upon the satisfactory completion of the aggregate hour requirement, the student is entitled to receive the Bachelor's degree, but no student will be granted a degree in less than four years of residence, unless he shall have obtained grade B as an average for his entire work.

ORDER OF THE DEPARTMENTS

The order of the departments of instruction as printed in this catalogue is as follows:

12 English 22 German 32 French 42 Italian 52 Latin 62 Greek
92 Spanish

14 Mathematics 24 Physics 34 Chemistry 44 Biology 54 Geology
64 Mineralogy

16 Philosophy 26 Education 36 History 46 Public Law and Ad-
ministration 66 Political Science

18 Oratory 28 Classical Archæology 38 Music 88 Physical Ed-
ucation

Departments of Instruction in the School of Liberal Arts

In the following description of subjects, the department and name of the officer in charge are first given; then the several subjects, with the introductory subjects first. Each department has its fixed number and each subject its symbol. When subjects do not continue through the year, (F) means that they occur in the first term and (S) means that they occur in the second. Unless otherwise indicated, instruction in each subject is given three times each week and the credit is three term-hours per half-year. Subjects enclosed in brackets are not offered during the current year. An asterisk (*) indicates that the subject cannot be counted in comprising the eighteen-hour requirement for a major. A double asterisk (**) indicates that the subject cannot be counted in comprising either the eighteen-hour requirement for a major or the twelve-hour requirement for a minor. If fewer than four students apply for an announced subject the subject may be omitted.

12 ENGLISH

PROFESSOR GRAY

****12-1.** (F) Freshman Composition. The essentials of composition, with practice in the forms of discourse, chiefly exposition and argumentation. Text-book, lectures, themes, conferences, and library reading. Required in all courses.

PROFESSOR GRAY and Mr. KEEGEN; in Jackson College, PROFESSOR DAVIES

****12-2.** (S) Freshman Composition continued. Further practice in the forms of discourse, chiefly narration and description. Text-book, lectures, collateral reading, themes, and conferences. Required in all courses. PROFESSOR GRAY and Mr. KEEGEN; in Jackson College, PROFESSOR DAVIES.

12-4. (s) Advanced Composition. Study of journalism and practice in newspaper writing. Text-book, analysis of the leading American newspapers, preparation of special articles, and conferences.

ASSISTANT PROFESSOR GILMER

English 4 is open to those who have obtained at least grade C in English 1 and 2.

[12-7. (s) The Forms of English Poetry. English versification, followed by the study of the chief forms of English poetry for both technique and content. Text-book, lectures, illustrative reading, and simple composition

PROFESSOR GRAY]

12-10. The English Bible as Literature. A study (1) of its various literary forms—narrative, poetry, story, drama, address; (2) of its backgrounds in government, history, geography, and social customs; (3) of the influence of Biblical Literature on all forms of English Literature.

PROFESSOR MCCOLLESTER

12-11. General View of English Literature. Historical outline of the development of English Literature and reading of representative masterpieces. Text-book, lectures, book of selections, and reading reports.

PROFESSOR GRAY

Students majoring in English are required to take 12-11 or 12-12, early in their course.

12-12. American Literature. A general survey of American literature, aiming to make clear the characteristics of the most important literary periods, the writers, and their works. Text-book, lectures, reading, and essays.

ASSISTANT PROFESSOR GILMER

12-13. (s) American Literature. A study of a group of representative authors: Hawthorne, Poe, Holmes, Lowell, and Thoreau. Reading, lectures, essays, and discussions.

MR. KEEGEN

12-11 or 12-12 must precede 12-13.

[12-16. Milton and his Time. Lectures, readings, and brief critical essays.

PROFESSOR GRAY]

12-17. (F) Shakespeare. A study of the life and times of Shakespeare, and of his development as a dramatist, illustrated by reading a series of selected plays.

ASSISTANT PROFESSOR GILMER

12-18. (s) Shakespeare. Critical reading of a few plays not included in 12-17, with special attention to text and problems of research. Lectures, quizzes, investigation, and reports.

PROFESSOR GRAY

[12-19. The Age of Chaucer. Study of forms and pronunciation, reading of selections from Chaucer and his contemporaries, and lectures on the historical and social background of their works. PROFESSOR GRAY]

12-23. (F) The Short Story. Narrative composition based mainly upon the study of the short story. Analysis of the principles of structure, practice-writing, and criticism of original manuscripts in class.

ASSISTANT PROFESSOR GILMER

12-24. (F) Poetry of the Nineteenth Century. Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Rossetti, Tennyson, and the Brownings, Lectures, reading, library work, and reports. PROFESSOR GRAY

12-25. Development of the Drama. A comprehensive study of the growth of the drama from its origin in Greece to plays of to-day. Many specimens of dramatic literature, Greek, Roman, English, and American, are read, summarized, and criticised in relation to dramatic principles.

ASSISTANT PROFESSOR GILMER

12-29. (s) Seminar. Origin of the English Novel and its development to the nineteenth century. (F) The English Novel of the nineteenth century.

PROFESSOR GRAY

[12-34. Tennyson and Browning. PROFESSOR GRAY]

12-36. (s) Prose of the Nineteenth Century. Lamb, De Quincey, Newman, Landor, Ruskin, Carlyle. Lectures, reading, library work, and reports.

PROFESSOR GRAY

22 GERMAN

PROFESSOR FAY

**22-1. Elementary German. The essentials of grammar, with composition. Reading of simple modern prose.

ASSISTANT PROFESSORS REED and BABBITT

German 1 is the equivalent of the entrance requirement in Elementary German.

*22-2. Intermediate German. Reading of modern prose, lyrics and ballads; review of grammatical principles; practice in writing German.

ASSISTANT PROFESSOR REED

German 2 is open to entering students who have presented Elementary German for admission.

22-3. Course in advanced reading. Selected works from the literature of the eighteenth and nineteenth centuries.

ASSISTANT PROFESSORS REED and BABBITT

German 3 is open to entering students who have presented Intermediate German for admission. Either half-year may be taken as a half-subject.

22-3A. German Composition, written and oral. *One hour a week.*

ASSISTANT PROFESSOR REED

German 3A is open to students who are at the same time taking German 3 or 4. It is not open to those who have taken or are taking German 3B.

22-3B. German Composition, written and oral.

ASSISTANT PROFESSOR REED

German 3B is open to students who have satisfactorily passed German 3 or its equivalent.

22-4. Schiller and Goethe. *Maria Stuart, Wallenstein; Egmont*, and selections from prose works of Goethe. Collateral reading. Dictation.

PROFESSOR FAY

German 4 is open to entering students who have presented Advanced German for admission. Juniors and Seniors whose major department is German may be permitted to take 4 and 5 in the same year.

22-5. Advanced reading in Lessing and Goethe. *Nathan der Weise, Emilia Galotti, Laokoön, Goetz von Berlichingen, Tasso, Iphigenie, Faust*, Parts I and II, with collateral reading.

PROFESSOR FAY

22-6. History of German Literature, with illustrative works for leading epochs. Middle High German: *Bachmann, Mittelhochdeutsches Lesebuch*.

PROFESSOR FAY

32 FRENCH

PROFESSOR FAY

****32-1.** Elementary French. The essentials of grammar, with composition, and the reading of short works of modern authors in prose and verse.

ASSISTANT PROFESSOR BABBITT

French 1 is the equivalent of the entrance requirement in Elementary French.

32-1A. Tone-Production and Phonetics with application to the French language.

MISS BRUCE

***32-2.** Intermediate French. Review of grammatical principles, especially with reference to syntax; exercise in composition; vocabulary practice; reading of modern fiction and drama, such as *Mérimée's Colomba* and *Sandean's Mademoiselle de la Seiglière*.

PROFESSOR LEWIS and ASSISTANT PROFESSOR BABBITT

French 2 is open to entering students who have presented Elementary French for admission.

32-3. Reading of modern authors (*Taine or de Vigny*, and novelists); introduction to seventeenth-century classics (*Corneille, Racine, Molière*,

Boileau). Review of grammatical principles, with advanced vocabulary practice. PROFESSOR LEWIS

French 3 is open to entering students who have presented Intermediate French for admission. Either half-year may be taken as a half-subject.

32-3B. French Composition. Translation from the English (Fontaine's Prose Composition); later from the German, the work being based on Plöetz' Nouvelle Grammaire Française and Uebungen zur Französischen Syntax. PROFESSOR FAY

French 3B is open to students who have completed French 3, or its equivalent, and at least one course in German.

32-4. Literature and Manners of the Seventeenth Century. Crane's Société Française au XVIIe Siècle; Molière, Le Misanthrope, Les Précieuses Ridicules, Les Femmes Savantes; Boileau, Les Héros de Roman; Warren's French Prose of the Seventeenth Century, and selections from modern critics. PROFESSOR FAY

French 4 is open to entering students who have presented Advanced French for admission. Juniors and Seniors whose major department is French may be permitted to take 4 and 5 in the same year.

32-5. Literature of the Eighteenth and Nineteenth Centuries. The drama, poetry, the novel, the philosophical essay and criticism. Either half-year may be taken as a half-subject. PROFESSOR LEWIS

[32-6. Historical Grammar. Old French readings: Chanson de Roland, Villehardouin, Joinville. History of French Literature. Detailed study of sixteenth century, with illustrative texts. PROFESSOR FAY]

42 ITALIAN

PROFESSOR FAY

42-1. Grandgent's Grammar and Composition; Bergen's Italian Reader; Maffei, Merope; Dante, Divina Commedia (Scartazzini's edition).

PROFESSOR FAY

The above subject alternates with 92-1 Spanish. These subjects are open to candidates for A.B. who have done satisfactory work in French above intermediate grade.

52 LATIN

PROFESSOR DENISON

*52-1. Cicero, Selections from the Letters or De Amicitia; Livy; Selections of Latin Verse from the earliest period to the late writers, including examples of Latin Hymns. The object aimed at in the second part of the course is to give to those who may not pursue Latin further a general conception of the best Latin verse, and to others a sound basis for more detailed

study of certain Latin poets. Literary values will be considered, and some practical aspects of Latin study will be emphasized. PROFESSOR DENISON

Latin 1 is introductory to all later subjects.

52-2. Pliny, selected letters; Horace, Odes; Terence, one play; Apuleius, Story of Cupid and Psyche; Petronius, Cena Trimalchionis. This subject introduces the student to the early drama and also to the authors of the Silver Age, and in addition affords opportunity for the detailed study of the Odes of the Augustan poet, Horace. PROFESSOR DENISON

Latin 2 is open to students who have completed Latin 1.

52-3. Oxford Selection of Latin Verse, or selections from the Satires of Juvenal and Epigrams of Martial; Cicero; Tacitus; reading at sight. PROFESSOR DENISON

[52-4. Horace, Satires and Epistles; Plautus, one or more plays; Cicero, selected letters; reading at sight. PROFESSOR DENISON]

Subjects 3 and 4 will be given in alternate years, and are designed for those who have completed Latin 2, or its equivalent. They may, by special arrangement with the instructor, be taken as half-subjects in either term.

52-5. Latin Composition. This course may accompany Latin 1 or be taken later in connection with other subjects offered by the department. *One hour a week.* PROFESSOR DENISON

52-6. Latin Composition. Latin 6 is open only to students who have completed Latin 5. In it particular attention is paid to idiom and style. By reason of the variation of the work from year to year, the subject may be taken a second time with due credit. *One hour a week.* PROFESSOR DENISON

NOTE:—The attention of Greek and Latin students is called to related subjects listed under Classical History and Archæology.

62 GREEK

ASSISTANT PROFESSOR WYATT

*62-1. Elementary. Goodwin's Grammar; Xenophon, Anabasis; Homer. ASSISTANT PROFESSOR WYATT

Greek 1 is intended for students entering without Greek and wishing to begin the study of that language. It is assumed that their previous training in linguistic studies will enable them to proceed rapidly and accomplish in one year all the work usually done in preparation for college. This subject may be taken (without credit) as a normal course by advanced students, on consultation with the instructor. *Double course, six hours a week.*

62-2. Xenophon, Memorabilia; Homer, Odyssey; Euripides, one play. ASSISTANT PROFESSOR WYATT

Greek 2 is for students who have passed Greek 1, or the entrance requirements in advanced Greek.

62-3. Herodotus, Books VII and VIII; Æschylus, *The Persians*; Sophocles, *Antigone*; Euripides, *Alcestis*; Plato, *Apology*, *Protagoras*.

ASSISTANT PROFESSOR WYATT

[62-4. Lyric and Elegiac Poets, to Pindar. Aristophanes: *Clouds*, *Birds*, *Acharnians*, *Frogs*, with study of social life in Athens in the fifth century B. C.

ASSISTANT PROFESSOR WYATT]

[62-5. Theocritus, *Idyls*, with study of the Alexandrine age; Lucian; Homer, the *Iliad*, or the *Odyssey*, entire, with lectures on the results of the more recent investigations of the Homeric question.

ASSISTANT PROFESSOR WYATT]

Subjects 4 and 5 will be given in alternate years, and are designed for those who have completed Greek 3 or its equivalent. They may, by arrangement with the instructor, be taken as half-subjects in either term.

NOTE:—The authors and works enumerated under courses 2, 3 and 4 are not necessarily repeated each year, but are intended to give a general idea of the aim and scope of the courses.

62-6. Greek Composition; practice in sight reading. *One hour a week.*

ASSISTANT PROFESSOR WYATT

Greek 6 may be taken by anyone who has had the equivalent of Greek 1.

[62-7. Greek Composition; reading at sight. *One hour a week.*

ASSISTANT PROFESSOR WYATT]

Greek 7 is open only to students who have completed Greek 6.

NOTE:—No student can be recommended as a teacher of Greek who has not taken at least one subject in Greek composition.

92 SPANISH

ASSISTANT PROFESSOR REED

[92-1. Elements of Spanish Grammar, practice in writing Spanish, reading of standard texts, including selections from the *Don Quijote* of Cervantes.

ASSISTANT PROFESSOR REED]

The above subject alternates with 42-1 Italian. These subjects are open to candidates for A.B. who have done satisfactory work in French above intermediate grade.

14 MATHEMATICS

PROFESSOR WREN

14-21. Introductory course. Rounded numbers, trigonometric functions, 4-place logarithms, right triangles. Graphical representation of functions, typical variables. Rectangular coördinates, straight lines, standard curves. Elementary derivatives, rate problems, extreme values. Simple integrals, areas. This subject and 21-21 Graphics described below are prescribed

for all students and satisfy the requirement of Mathematics for the Bachelor's degree, in the School of Liberal Arts and Jackson College. *Four term-hours.* PROFESSOR RANSOM, ASSISTANT PROFESSOR DILLINGHAM and MR. H. RICE

21-21 Graphics. Introductory Course. A general consideration of the principles and usages of the graphic language, including practice in the reading of a variety of drawings, and such training in the art of graphic expression as may be possible without the usual equipment necessary to instrumental work. *One two-hour period a week. Counting as two term-hours.*

PROFESSOR ANTHONY and ASSISTANT PROFESSOR ASHLEY

14-4. (F) Analytic Geometry. Coördinate systems. Properties of conic sections and higher plane curves. Introduction to three dimensional geometry.

PROFESSOR RANSOM

14-5. (S) Elements of Calculus. Differentiation and integration of the elementary forms of algebraic and transcendental functions with simple applications.

PROFESSOR RANSOM

14-6. (F) Differential and Integral Calculus. A continuation of course 5, involving application to mechanics and to the theory of plane curves, the determination of lengths, areas and volumes.

ASSISTANT PROFESSOR DILLINGHAM

14-7. (S) Advanced Calculus. A more critical examination of fundamental methods and their extension to complex quantities. Partial differentiation, line and surface integrals, and the more notable definite integrals.

PROFESSOR RANSOM

14-8. (S) Modern Geometry. An advanced course in Plane Analytic Geometry involving analysis by means of homogeneous coördinates, interpreting imaginary and infinite elements, and introducing the elementary geometric transformations.

ASSISTANT PROFESSOR DILLINGHAM

14-9. (F) Theory of Equations and Determinants. Transformation of equations; cubic and quartic equations; applications of substitution groups; classification of linear simultaneous equations; properties of determinants.

ASSISTANT PROFESSOR DILLINGHAM

14-10. (S) Differential Equations. A problem course in the elementary theory of ordinary and partial differential equations with applications to geometry and mechanics.

PROFESSOR WREN

14-12. (F) Vector Analysis. Sums and products; differential operators; applications to geometry, electricity, and dynamics.

PROFESSOR RANSOM

Mathematics 12 is open to students who have completed Mathematics 14-21, 4, 5, and 6.

14-14. (F) Theoretical Mechanics. A problem course dealing mainly with dynamics of a particle, and dynamics of a rigid body. Lectures and recitations. Mathematics 6 and 10 must precede.

ASSISTANT PROFESSOR MARVIN

14-22. (F or S) Algebra, geometry, and trigonometry. Parts of these subjects will be selected with especial reference to the needs of those intending to teach.

PROFESSOR RANSOM

Not open to Freshmen.

24 PHYSICS

ASSISTANT PROFESSOR MARVIN

*24-1. General Physics. A course of lectures, recitations and laboratory work. It is to be elected by students who choose Physics as their prescribed science and who have presented Physics for admission. *Two lectures or recitations and one three-hour laboratory period per week.*

ASSISTANT PROFESSOR MARVIN and MR. KNIGHT

Must be preceded or accompanied by Mathematics 14-21.

24-20. General Physics. A course of lectures, recitations and laboratory work intended to acquaint the student with the fundamental principles of Physics. This subject is to be elected by students who have not presented Physics for admission. *Three lectures or recitations and one three-hour laboratory period.* ASSISTANT PROFESSOR MARVIN and MR. KNIGHT

24-21. General Physics. Problem Course. This course is a continuation of, and must be preceded by Physics 1. *Two recitations per week. Counting as four term hours.*

MR. POTE

24-7. Physics Laboratory. A laboratory course in General Physics intended to follow Physics 1. *One three-hour period per week. Counting as two term hours.*

MR. POTE

24-2. (F) Electricity and Magnetism. Mathematical Theory. Lectures and recitations. Mathematics 5 must precede.

ASSISTANT PROFESSOR MARVIN

24-6. (S) Wave Motion and Light. A brief treatment of geometrical optics is followed by a discussion of reflection, refraction, diffraction, interference, polarization, double refraction, emission and absorption from the standpoint of the wave theory. Lectures and recitations. Mathematics 5 must precede.

ASSISTANT PROFESSOR MARVIN

24-9. (S) Theory of Heat. A discussion of the classical experiments of Regnault, Joule and others, is followed by an introduction to the Kinetic theory and Thermodynamics, and a discussion of recent developments in the field of Radiation. Lectures and recitations. Given in 1916-17. Mathematics 5 must precede.

MR. POTE

24-11. (F) Conduction of Electricity through Gases, and Radioactivity. Lectures and recitations, with collateral reading. Reports on original papers appearing in the literature of the subject are required from time to time. Mathematics 5 must precede.

MR. POTE

24-17. Advanced Physics Laboratory. A course intended to accompany Physics 2, 6, 9 or 11. Open to Juniors and Seniors whose major department is Physics, and to other Juniors and Seniors whose qualifications are satisfactory to the head of the department. The course may be pursued for one, two, three or four terms, subject to the approval of the head of the department. *One three hour period per week. Counting as one to four term hours, according to the number of terms in which it is pursued.*

ASSISTANT PROFESSOR MARVIN and MR. POTE

Mathematics 14 may be counted towards a major in Physics.

34 CHEMISTRY

PROFESSOR DURKEE

***34-1.** General Chemistry. A course in theoretical and descriptive inorganic chemistry, with a thorough consideration of the simplest carbon compounds and principal technical processes. This subject is to be elected by those who have presented Chemistry for admission. *Two lectures, and one three-hour laboratory period. Counting as six term hours.*

PROFESSOR DURKEE, MR. BAKER, DR. CHANDLER, and Mr. POULEUR

34-20. General Chemistry. An introductory course in theoretical and descriptive inorganic chemistry, with a thorough consideration of the simplest carbon compounds and principal chemical processes. This subject is to be elected by those who have not presented Chemistry for admission. *Three lectures or recitations, and one three-hour laboratory period.*

PROFESSOR DURKEE, MR. BAKER, DR. CHANDLER, and Mr. POULEUR

35-2. (F) Qualitative Analysis for the detection of the metals, a course which includes the experimental development of schemes for the division of the metals into groups, the separation and detection of the metals in each group,—a study of all the chemical changes and analytical details, together with the correct analysis of six known solutions and thirteen unknown. Lectures, laboratory work and recitations. *Two three-hour periods. Counting as two term hours.*

PROFESSOR DURKEE, MR. BAKER, and ASSISTANTS

35-3. (S) Qualitative Analysis. Advanced, dealing with methods to effect solution of solids, the detection of mineral and common organic acids, the complete analysis of inorganic solids, including mixtures of salts, minerals, alloys, and slags. Three known and thirteen unknown are required, and thorough study of the chemical changes and conditions involved in the analyses. Lectures, laboratory work, and recitations. *Two three-hour periods. Counting as two term hours.*

MR. BAKER and ASSISTANT

34-22. Qualitative Analysis. A more extended treatment than that given in 35-2 and 35-3. Preparation 34-1. Open to all who are not engineering, or B.S. in chemistry students. Lectures, recitations, and laboratory work. *Three three-hour periods. Counting as six term hours.*

PROFESSOR DURKEE and MR. BAKER

34-4. Quantitative Analysis. Theory and practice of gravimetric and volumetric analysis, including the determination of chlorine by the ordinary and Gooch crucible methods, iron and sulphur in furous ammonium sulphate, silica in a silicate, phosphorus in a phosphate, complete analysis of dolomite, and brass, preparation of strictly half-normal sodium hydroxide and hydrochloric acid solutions, the volumetric analyses of soda ash and oxalic acid, the analysis of iron ore by the dichromate and permanganate methods, determination of chromium in chromite, of antimony by the iodine method, and silver by the sulphocyanate method. Lectures and laboratory work. *Three three-hour periods. Counting as six term hours.*

PROFESSOR DURKEE and MR. BAKER

34-5. Quantitative Analysis. Technical. Work varied somewhat to meet the needs of individual students. Course ordinarily comprises proximate analysis of coal, nitrogen in coal, by Kjeldahl's method, complete analysis of boiler scale, mineral and sanitary analysis of water, determination of copper in ores by iodine and cyanide methods, of zinc by ferro-cyanide method, complete analysis of Babbitt metal, determination of lead in ores, and manganese, sulphur, phosphorus, silicon and carbon in iron and steel. Organic analysis. Laboratory work. *Three three-hour periods. Counting as six term hours.*

PROFESSOR DURKEE

34-7. (s) Fire Assay. A course which deals with the theory and practice of sampling and assaying gold and silver ores. Open to students who have taken 1, 2, 3, and 4. *Two three-hour periods. Counting as two term hours.*

PROFESSOR DURKEE and MR. POULEUR

34-8. (s) Metallurgy of Iron and Steel, considered largely from the chemical side and includes the study of ores, fluxes, fuels, furnaces, and the other mechanical devices used in the commercial production of pig iron, wrought iron, and steel, together with the solution theory of iron and steel, heat treatment of steel, and production of malleable cast iron. Metallurgy of Gold and Silver is an alternative. Lectures, recitations, and laboratory work. Chemistry 8 is open to students who have taken Chemistry 1. *Two lectures a week. Counting as two term hours.*

MR. BAKER

34-9. (F) Gas Analysis, by the Orsat, Elliot, and Hempel systems. Lectures and laboratory work. Chemistry 9 is open to students who have taken Chemistry 1, 2, 3, and 4. *One three-hour period. Counting as one term hour.*

PROFESSOR DURKEE and MR. POULEUR

35-10. Organic Chemistry. This course consists of lectures, recitations, and laboratory work. It is intended to familiarize the student with the typical compounds of carbon and their more important derivatives. The work in the laboratory includes the preparation of certain of the more important substances referred to in the lectures, and the identification of certain classes of compounds. Lectures, recitations, and laboratory work. Chemistry 10 is open to students who have taken Chemistry 1. *Three lectures and one three-hour laboratory period. Counting as eight term hours.*

DR. CHANDLER and ASSISTANT

34-11. Physical Chemistry. The subject matter of this course consists largely of the principles usually included under the head of Physical Chemistry. The work in the laboratory consists of physical chemical measurements and experiments of a physical chemical nature. Lectures, recitations, and laboratory work. Chemistry 11 is open to students who have taken Chemistry 1, 2, and 4. *Two lectures and one three-hour laboratory period. Counting as six term hours.*

DR. CHANDLER

34-12. (F) Discussion of Chemical Subjects and Recent Investigations. *One hour a week.*

PROFESSOR DURKEE and DR. CHANDLER

34-17. Applied Chemistry. A course dealing with the most important applications of inorganic and organic chemistry to manufacturing purposes, such as the production of sulphuric acid, soda, illuminating gas, and sugar. Lectures, visits to plants, text-book work, and recitations. *Two lectures or recitations and one three-hour laboratory period. Counting as six term hours.*

PROFESSOR DURKEE

34-16. Thesis. Investigation of a problem in Inorganic, Organic, or Technical Chemistry. Open to students of A.B. and Science Courses who have satisfactorily completed Chemistry 1, 2, 3, 4, 5, and 10. *Nine laboratory hours a week. Counting as six term hours.*

PROFESSOR DURKEE and DR. CHANDLER

34-19. (F) Chemistry. This course is primarily intended to enable the students to acquire facility in reading chemical German. The work consists of recitations and special reports on assigned subjects. These assignments are chiefly to articles in the German chemical journals. Open to Juniors and Seniors, candidates for A.B. or B.S., taking chemistry as a major subject, who have had not less than two years of college German or its equivalent.

DR. CHANDLER

44 BIOLOGY

PROFESSORS NEAL AND LAMBERT

***44-1. General Biology.** A course in the principles of animal and plant biology, presenting the fundamental facts of vital structure and function with special emphasis upon the vertebrates and flowering plants. Some

conception of the evolution of plants and animals is given by the laboratory study of a series of types beginning with the unicellular. The student is advised to take field work in ornithology (Biology 13) in conjunction with Biology 1. *Two recitations and three hours of laboratory work. Counting as six term hours.* PROFESSORS NEAL and LAMBERT

44-3. Vertebrate Morphology. A course in the phylogeny of man and mammals. The laboratory work consists largely of the dissection of the dogfish and cat. Each organ system is studied with reference to its development, anatomy and physiology. Open to all students who have completed Biology 1. *Two lectures or recitations and three hours of laboratory work. Counting as six term hours.* PROFESSOR NEAL

44-4m. (s) Human and Comparative Physiology. Lectures, recitations, conferences, and laboratory work. Given at the Medical School. *Hours and credit to be arranged.* DR. RYAN

44-5m. (F) Histology, Medical. Lectures, quizzes, and laboratory work given at the Medical School. *Hours and credit to be arranged.* PROFESSOR BATES

44-7. Botany. Lectures and laboratory work. An advanced course in plant morphology and physiology, open to students who have taken Biology 1. *Two lectures and three hours of laboratory work. Counting as six term hours.* PROFESSOR LAMBERT

44-8. Special Work. The investigation of some problem. Open to those who have taken three courses in biology. *Hours and credits to be arranged.* PROFESSORS NEAL and LAMBERT

44-9m. (F) Human Anatomy. Lectures, quizzes, and dissection. Given at the Medical School. *Hours and credit to be arranged.* DR. SULLIVAN

44-11. Microscopical Technique. A laboratory course designed to introduce the student to the methods used in the preparation of plant and animal tissues for the microscope. Open to students who have completed Biology 3 or 7. *Six hours of laboratory work. Counting as four term hours.* PROFESSOR LAMBERT

44-12. Theoretical Biology. A reference reading and thesis course designed to introduce the student to some of the more important literature dealing with the scientific and philosophical problem of man's place in nature. A thesis based upon reference reading and dealing with the problem of the physical and mental evolution of man is required. Open to Seniors and Juniors but may not be offered as a part of the science requirement for a degree. *One lecture, one conference hour and four hours of reference reading. Counting as six term hours.* PROFESSOR NEAL

44-13. (S) Ornithology. A field and laboratory course in the study of our native birds. To be taken in conjunction with Biology 1. *One three hour laboratory period or field trip a week. Counting as one term hour.*

PROFESSOR NEAL

54 GEOLOGY

PROFESSOR LANE

54-1. (S) Physical Geology and Geography. Primarily intended for Jackson students who may wish to teach Physical Geography in high schools, but there is also room for engineering students who cannot find place for 54-5 and 54-23 and 24. The text-books are Tarr (New Physical Geography) and Tarr & Von Engel (Laboratory Manual of Physical Geography). A few lectures in geology will be given. *Three periods a week and seven required Saturday afternoon excursions. Counting as three term hours.*

PROFESSOR LANE

54-5. (F) Physical Geology. Studies the processes which have left their records on the earth. Frequent excursions. *Wednesday 5, 6, 7, 8 and Friday 6. Counting as three term hours.*

PROFESSOR LANE

A knowledge of Chemistry, Physics and Trigonometry is presupposed.

54-23. (S) Economic Geology. The various natural sources of supply for man's needs and the economic and geologic principles governing their valuation and development. The instruction is chiefly by lectures and the work is mainly collateral reading. This subject is best taken with 54-24 and preceded by some course in Geology or Mineralogy. *One period a week. Counting as one term hour.*

PROFESSOR LANE

54-24. (S) Historical Geology. A study of the geological periods, with field excursions and laboratory work on fossils. *Wednesday 5, 6, 7, 8 and Friday 6. Counting as two term hours.*

PROFESSOR LANE

Geology 1 or 5 must precede; Biology 1 is helpful.

[**54-3.** Mathematical Problems presented to geologists. Conferences and critical reading of selected papers and original work. Mathematics 4 must precede Geology 3; Mathematics 6 must precede or accompany it. *Counting as three term hours each half-year.*

PROFESSOR LANE]

[**54-4.** Field Geology. Conference, one hour; field work, six hours a week; open to students who have taken Geology 24. *First part of first and last part of second half-year. Counting as three term hours.*

PROFESSOR LANE]

64 MINERALOGY

PROFESSOR LANE

Professor Lane would be glad to advise students wishing to take a thesis subject in Chemistry or Mathematics of geological, mineralogical or crystallographic interest.

64-1. (F) Mineralogy and Lithology. Open to students who have taken Chemistry I. *Two recitations and four hours of laboratory work or excursion. Counting as three term hours.* PROFESSOR LANE

[64-2. (S) Crystallography and Advanced Mineralogy. Open to students who have taken Mineralogy I. *Two lectures and four hours laboratory work and field excursions. Counting as three term hours.* PROFESSOR LANE]

16 PHILOSOPHY

PROFESSOR SCHMIDT

[16-1. (F) Introduction to Philosophy. The course attempts to give the beginner in philosophy a perspective of what philosophy is about and what kind of help it may give him. PROFESSOR SCHMIDT]

[16-2. (S) Introduction to Philosophy. A continuation of the preceding. PROFESSOR SCHMIDT]

[16-3. (F) Logic. An elementary exposition of logic, in the modern sense of the word, of critique of cognition, structure of systems, and scientific methods. PROFESSOR SCHMIDT]

[16-4. (S) Logic. The "new" logic. An introduction to the calculus of classes and propositions; with applications. This course presupposes Philosophy 3. PROFESSOR SCHMIDT]

16-55. Psychology. An elementary lecture course. Normal human psychology will form the main subject of the course; but abnormal and supernormal phenomena will be studied in so far as they shed light on normal psychology. Lectures, illustrative experiments, conferences. PROFESSOR SCHMIDT

16-8. Ethics. A critical survey of the evolution of ethical ideals, followed by a constructive theory. But the main emphasis of the course will be laid on the application of the theory to the problems of the modern world of action. PROFESSOR SCHMIDT

16-16. (S) Experimental Psychology. An elementary laboratory course; open only to those who either have finished or are taking the course in general psychology (55). Nine hours of laboratory work counting for three term hours. PROFESSOR SCHMIDT

26 EDUCATION

PROFESSOR SCHMIDT

16-55. Psychology. This course is listed in the Department of Philosophy. It is recommended that students who expect to teach take this course during the Sophomore year, as it is required for all courses in Education except 26-1.

26-1. (F) Principles of Education. Brief introductory study of the Educational Reformers. PROFESSOR SCHMIDT

[26-2. (S) Child Study. Child psychology; the relation of the school to child welfare including a discussion of such problems as school hygiene, backward children, juvenile delinquents and public play grounds; principles of moral and religious education. PROFESSOR SCHMIDT]

26-4. (S) Educational Psychology. A study of the application of psychology to the problems of education. PROFESSOR SCHMIDT

This course may be taken during the second term of the year in which the course in General Psychology 16-55, is taken.

26-5. (F) Principles of Secondary Education. Mr. SHAW

This course presupposes 26-1 and 26-4; it is meant primarily for those who expect to make secondary-school teaching their profession.

[26-6. (S) Principles of Secondary Education (continued). Mr. SHAW]

26-7. (S) Practice Teaching. Teaching under supervision in the high schools of Arlington, Medford, Somerville and Winchester. Only students who have finished 26-5 will be permitted to take this course. No student will be recommended by the Department of Education for a teaching position, unless he has shown teaching ability in the course in practice teaching.

Mr. SHAW

36 HISTORY

PROFESSOR ANDREWS

*36-1. The introductory course, designed to give a comprehensive view of the various political, religious, industrial, and social factors that have contributed to the Europe of today, and thus to pave the way for a more detailed study of limited periods. The field is in Medieval, and Modern European History and emphasis is distinctly on the modern period. Text-books, lectures, assigned reading and thesis. PROFESSOR ANDREWS

Students desiring to take as many subjects as possible in the department should elect History 1 and 2 early in their course. In History 6, 7, 9 and 15 a reading knowledge of French is useful.

36-2. General History of England. Text-book, lectures, analyses, and themes. PROFESSOR BOLLES

36-3. General History of America. Text-book, lectures, analyses, and themes. PROFESSOR BOLLES

36-6. (F) The French Revolution, the Napoleonic Period and the history of Europe to 1850. Text-book, discussions, assigned reading and thesis.

PROFESSOR ANDREWS

36-7. (S) Modern Europe, 1850-1914. One of the chief purposes of this course is to furnish some explanation of present-day questions in European affairs. Discussions, assigned reading and thesis. PROFESSOR ANDREWS

[36-9. The History of Eastern Europe from the earliest times to the present day. This subject includes the history, religions, institutions, and political and economic conditions of the countries and peoples of the Nearer East, including, especially, Russia, Poland and other Slavic nations, the Byzantine Empire, the Balkan States and the Ottoman Empire, with some attention to Asia Minor, Egypt and Northern Africa. Lectures, discussions, assigned reading and thesis. PROFESSOR ANDREWS]


The second half-year may be taken separately by special permission of the instructor.

36-15. Seminar in History and Public Law. Investigation of selected topics from the sources. During the year 1915-16 the subject of study will be taken from the recent history of Europe. History 15 is open only to such students as receive the special permission of the instructor. *Hours and credit to be arranged with the instructor.*

PROFESSOR ANDREWS

46 PUBLIC LAW AND ADMINISTRATION

PROFESSOR ANDREWS

 History 1 should precede or accompany any subject in Public Law but students may be admitted to classes by special permission of the department. Students desiring to take all the subjects in this group should elect History 1 in their first year, and Public Law 1, or its alternate, in their second year.

[46-1. (F) Political Institutions of the United States—Federal, State, and Municipal. The framework of American Government is studied but emphasis is placed upon its actual working as modified by usage and existing conditions. Political parties, their place and development will be given due emphasis. Attempts will be made to study at close range the machinery of state and local legislative bodies. Each student will be given an opportunity to report on the governmental conditions in the locality with which he is most familiar. Text-book, lectures, discussions and thesis. PROFESSOR ANDREWS]

[46-3. (S) Modern English Government. Detailed study of the actual working of the English Government. Attention will be given to the procedure of Parliament and its relation to the executive, to the administrative structure, the organization and influence of political parties, and colonial relations. Comparisons with American and Continental political conditions will be attempted. Text-book, lectures, assigned reading, and thesis.

PROFESSOR ANDREWS]

[46-4. (F) European Government and Politics. A study of the constitutions of the chief European states, together with the consideration of the most important questions of European politics. A reading knowledge of French is desirable. Text-book, lectures, assigned reading, and thesis.

PROFESSOR ANDREWS]

[46-8. (S) Colonial Governments: The governments of colonies and dependencies throughout the world. Attention will be given to the history of modern colonization, to past and present experiments in administration, and to the international aspects of the colonial development of modern nations. Lectures, assigned reading and thesis. PROFESSOR ANDREWS]

46-10. International Law and Modern Diplomacy. The history of international law and consideration of its leading principles and practice. Cases in modern diplomatic procedure will be used. Textbook, lectures, discussions and assigned reading.

PROFESSOR ANDREWS

66 POLITICAL SCIENCE

ASSISTANT PROFESSOR WILSON

*66-1. Elements of Economics. (a) First semester: a consideration of the fundamental concepts of economics. The factors of production, exchange, distribution and consumption; the services of land, labor, capital and managerial ability; the laws of wages, rent, interest and profits. (b) Second semester: a study of present day economic problems. The corporation, trusts, railways, monopolies, tariff and free trade. The rise of the modern labor problem; types of labor unions, of employers' associations, of industrial peace agencies; woman labor and the minimum wage; child labor, industrial education and vocational guidance; mis- under- and unemployment; industrial accidents, occupational diseases, poverty and workmen's insurance; profit-sharing, coöperation and welfare schemes. The effects of immigration on our economic, social and civic life; the beginnings, teachings and progress of modern socialism, its relation to trade unionism, syndicalism and anarchism. The relation of the State to industry. The aim of this course is to present economic and social movements and their underlying causes in such a way as to give to the non-specialist, whatever his future work may be, an intelligent understanding of current industrial problems and tendencies. Lectures, quizzes, text, assigned readings.

ASSISTANT PROFESSOR WILSON

Economics 1, or its equivalent, is introductory to all the other subjects offered by the department.

66-2. (F) Modern Industrial History of Europe. A survey of existing industrial society in terms of development. The local industry of feudalism, the manorial and guild systems, the rise of nationalism, custom and competition, the effects of the Industrial Revolution on the development

of technique, the separation of industrial functions, concentration of wealth, the growth of industrial institutions, and the theory of industrial change; the effects of the machine process upon social life and institutions. Lectures, text and assigned readings. MR. L. P. RICE

66-22. (S) Economic History of the United States. Brief consideration of economic conditions in the colonies; the growth of western settlement; economic relations growing out of slavery and the Civil War; study of the growth of agriculture, mining, manufacture, transportation and the resultant types of domestic and foreign commerce; brief survey of national legislation on currency, finance, taxation, including the tariff, together with its relation to industry and commerce. Lectures, text and assigned readings. MR. L. P. RICE

66-3. (F) Elements of Sociology. A general course in the foundations of sociology, including a survey of social origins, social evolution and some account of the prevailing types of social activities of present day society. Methods of social control—law, belief, public opinion, social suggestion. Social organization, social ideals and theories of social progress. Lectures, readings, discussion. MR. L. P. RICE

66-13. (S) Social problems. A study of current problems in sociology: population, the family, child welfare, the woman movement; the assimilation of the foreign elements in American population; rural isolation and city congestion; problems of poverty, delinquency and dependency. Movements for social betterment such as improved standards of living, housing and civic recreation. Lectures, readings, discussion. MR. L. P. RICE

[66-4. (F) Principles of Public Finance. Public expenditures; classification of public revenues; recent reforms in taxation; the development and significance of public debts; financial administration; recent European and American works on finance. Lectures, discussions, text.

ASSISTANT PROFESSOR WILSON]

[66-5. (S) Fiscal History of the United States: an historical course, with special reference to the financial experience of the United States. Leading topics are Hamilton's financial system; protection and revenue tariffs; the bank question; the fiscal policy of the Civil War; resumption of specie payments; the national banking system; state and local taxation; silver legislation and the panic of 1893; government loans; resumé of recent financial legislation. Lectures, discussions, text. ASSISTANT PROFESSOR WILSON]

66-6. (F) Modern Industrial Combinations. The economics of corporations with special reference to the so-called trust problem. Among the topics treated are trust promotion, capitalization, trusts and industrial efficiency, influence of combinations upon prices, profits, wages, rights of investors,

international trade, industrial stability and business honor; the practical results attained through publicity, taxation, recent court decisions and State regulation. Lectures, recitations, reports, text.

ASSISTANT PROFESSOR WILSON

66-16. (s) Modern Labor Problems. This subject deals mainly with the social and economic problems arising from the relations of employers and their laborers. The chief topics will be the growth, methods and aims of modern associations of wage earners; methods of conciliation and arbitration; strike and factory legislation; employers' liability and recent compensation acts; compulsory publicity; provident institutions and friendly societies; the relation between trade unions and scientific management. Each member of the class will be expected to make a report upon a labor union. Lectures and recitations, text.

ASSISTANT PROFESSOR WILSON

66-17. Business Organization and Administration. This course treats of the various types of business organization, management and administration; plant equipment; problems of internal organization; modern business practice in selecting, placing and training employees; methods of remuneration and promotion; just relations between employer and employee. A critique of the various efficiency systems, with special reference to the principles and practice of scientific management, their scope, application, economic and social results. The ideal business administrator. The place of vocational guidance in the field of business and industry. Students desiring to prepare for executive and administrative positions will find this course of particular assistance. Lectures, discussions, and reports.

ASSISTANT PROFESSOR WILSON

Either half-year may be taken as a half-subject.

66-18. Transportation Problems. The economic, financial and social problems arising from modern systems of transportation, with special reference to railway transportation, in the United States. The chief topics are: brief historic survey of water and railway transportation; railway charters, powers of directors and stockholders, the nature of railway securities; railway traffic; fares, rate making, rebates, pooling and railway consolidations; the American systems of State railway commissions, the Interstate Commerce Commission, the recent extensions of Federal control; the effects of transportation systems upon industrial competition. A part of the time will be devoted to some of the more recent problems of electric railway development. A special report will be required from each student of the subject. Lectures and recitations.

ASSISTANT PROFESSOR WILSON

Either half-year may be taken as a half-subject.

66-7. (s) The History of Economics: an account of the beginnings, the progress, and the various schools of economic science; study of the writings

of Adam Smith, Ricardo, Mill and others. Political Science 7 is open to advanced students who are specializing in the department. A reading knowledge of French and German is desirable.

ASSISTANT PROFESSOR WILSON

This course is open to graduate students only.

66-9. Seminar in Economics and Sociology, designed for advanced students who are specializing in the department. Questions in economics, statistics or sociology may be selected. *Hours and credit to be arranged.*

ASSISTANT PROFESSOR WILSON

18 ORATORY

ASSISTANT PROFESSOR GILMER

18-1. (S) The Principles of Oratory. Enunciation and pronunciation; attitude and gesture; declamation; delivering of speeches, extempore and prepared; final original oration.

ASSISTANT PROFESSOR GILMER

18-2. (F) Argumentation and Debate. Impromptu and prepared debate. Individual criticism.

ASSISTANT PROFESSOR GILMER

28 CLASSICAL HISTORY AND ARCHÆOLOGY

PROFESSOR DENISON AND ASSISTANT PROFESSOR WYATT

[28-1. (F) Greek and Roman Architecture. In this course a special effort will be made to trace the influence of Greek and Roman Architecture on the architecture of subsequent periods, particularly of our own time; and also to treat later styles sufficiently to make clear fundamental differences and inspire the student to further reading and study. PROFESSOR DENISON]

The instruction in this and the following courses will be by means of lectures, class reports and lantern slides.

[28-2. (S) Greek and Roman Sculpture. The twofold purpose of this course is, to inspire in the student a love for the beautiful, and to enable him to gain some understanding of the bases of present-day art and the principles of its interpretation. ASSISTANT PROFESSOR WYATT]

[28-3. (F) Roman Private Life. PROFESSOR DENISON]

28-4. (S) Greek Private Life. ASSISTANT PROFESSOR WYATT

In subjects 3 and 4 there will be systematic treatment of such topics as birth, education, marriage, death, the house, furniture, dress, meals, amusements, careers and occupations.

28-5. (F) Roman Religion and Public Life. In this course special stress will be laid on the Roman Religion, but there will be systematic study of other topics such as the topography of Rome, political, legal and military institutions, measures and money, books, inscriptions, chronology and calendar.

PROFESSOR DENISON

[28-6. (S) Greek Mythology and Religion. The underlying principles of Greek religion will be considered. The Myths will be treated in their relation to ancient and modern literature and art. Textbook (Fairbanks, Greek Mythology). ASSISTANT PROFESSOR WYATT]

28-7. (F) Greek History; from the earliest times to the death of Alexander, with consideration of the sources. Textbook (Bury). ASSISTANT PROFESSOR WYATT

28-8. (S) History of Rome; from the beginnings of the city to the Fall of the Western Empire, with study of the sources. PROFESSOR DENISON

38 MUSIC

PROFESSOR LEWIS

38-9. (F) Musical Appreciation, Elementary. Systematic studies in musical essentials from the listener's standpoint. PROFESSOR LEWIS

For Music 9 no technical preparation is requisite, but ability to recognize a melody is presupposed. Ability to follow a piano score is very helpful. Outside reading and laboratory study with automatic instruments are required. Music 9 is given in Tufts and Jackson in alternate years. In 1916-1917 it is given in Jackson.

38-10. (S) Musical Appreciation, Intermediate. A continuation of Music 9. PROFESSOR LEWIS

38-11. (F) Elements of Theory. Lectures, practice, and analysis, with various text-books for reference. PROFESSOR LEWIS

Only acquaintance with musical notation and with the piano keyboard is required. Music 11 is introductory to Music 21.

38-21. (S) Harmony. Lectures and practical work, based on Chadwick's Manual of Harmony; collateral reading on biography and theory. PROFESSOR LEWIS

[38-22. (F) Advanced Harmony and Elementary Counterpoint. A continuation of Music 21. PROFESSOR LEWIS]

A full equivalent of Music 11 and 21 must have been done by students who wish to begin their college work with Music 22.

[38-3. (S) Sight-reading in Song, and Harmonic Analysis. PROFESSOR LEWIS

Only those who have finished Music 22 may take Music 3. The harmonic analysis begun in Music 22 is continued, with special attention to the problems of modern music. Harmonic Analysis, by B. Cutter, and Melodia, by Cole and Lewis, are the text-books.

38-24. (S) Counterpoint. Lectures and practical work, based on the manuals of Goetschius, Spalding, and others; collateral reading on biography and theory. PROFESSOR LEWIS

Laboratory work with the automatic instruments is required.

[38-6. (s) General History of Music, from the earliest times to the present day, with special attention to the period since the death of Palestrina. Lectures, with various treatises for reference. PROFESSOR LEWIS]

38-25. Studies in one or more of the following subjects: Canon, Fugue, Orchestration, Form, Free composition, Musical History, Musical Criticism. PROFESSOR LEWIS

The studies may be directed by lectures, or may consist of individual work of students under the supervision of the instructor. Requirements as to previous studies in Music and in foreign languages will be given on application to the instructor.

88 PHYSICAL EDUCATION

DR. L. R. BURNETT, Director

The aim of the department is to secure the interest and participation of the students in such exercises and training as they need for corrective, hygienic, and recreative purposes.

Lectures on anatomy, physiology, and personal hygiene are given during the first term of the Freshman year. Regular class exercises in the gymnasium during the winter, and outdoor exercise in the fall and spring, are required two hours a week of all undergraduate students, for the first two years following admission to college. A medical examination is given and physical measurements and strength tests of all students are taken.

THEOLOGY

All the subjects offered in the Theological School are open to election by qualified students in the School of Liberal Arts.

Time-Schedule for 1916-17

(Subject to Revision)

SCHOOL OF LIBERAL ARTS AND JACKSON COLLEGE

Initials are used for the days of the week. The numeral following these letters indicates the program-hour, not the time of day. The working day is divided into eight periods as follows:

1	8.00	5	12.10
2	8.50	6	2.10
3	9.50	7	3.10
4	11.10	8	4.10

Thus *MWF* 2 means Monday, Wednesday and Friday at 8.50; *TTS* 4 means Tuesday, Thursday and Saturday at 11.10.

(F) indicates that the subject is offered for the first half-year only; (s) for the second half-year only. All subjects not so indicated extend through both terms.

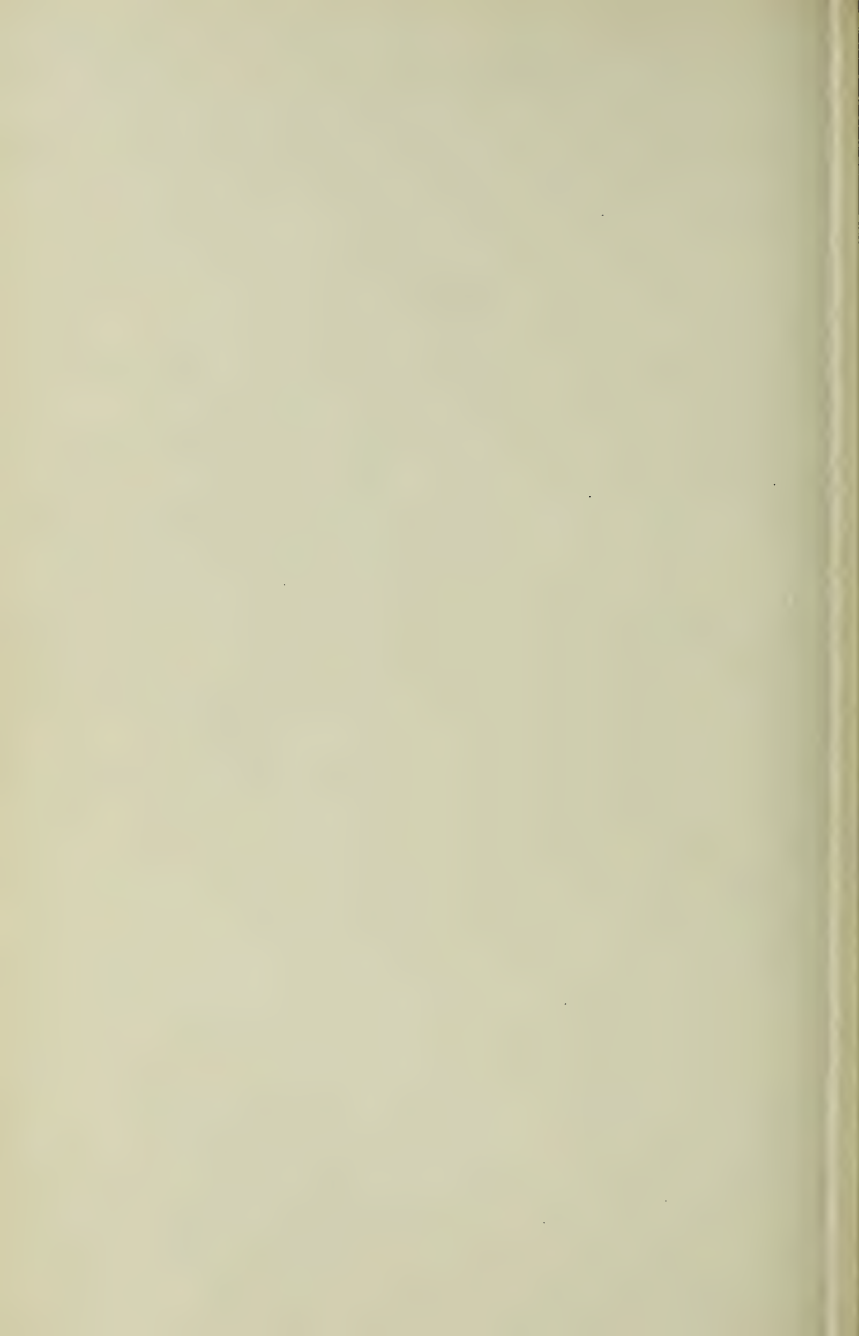
The hour for the Tufts division is indicated by the letter T; for the Jackson division by J. All subjects not so indicated are open to students of both colleges.

For description of the subjects, students are referred to the departmental statements.

12-1 (F) English T <i>MWF</i> 3 or <i>TTS</i> 3; J <i>MWF</i> 2	14-14 (F) Mathematics *
12-2 (s) English T <i>MWF</i> 3 or <i>TTS</i> 3; J <i>MWF</i> 2	{ 14-21 Mathematics T <i>MW</i> 2 or <i>MF</i> 6 or <i>Th S</i> 2; J <i>MF</i> 7 or <i>Tu S</i> 2
12-4 (s) English <i>TTS</i> 3	{ 21-21 Graphics T <i>Tu</i> 12 or <i>W</i> 67 J <i>Th</i> 12
12-10 English <i>TTS</i> 3	14-22 (F or s) Mathematics *
12-11 English <i>MWF</i> 5	16-8 Philosophy <i>TTS</i> 4
12-12 English <i>MWF</i> 2	16-16 (s) Philosophy <i>TTS</i> 2
12-13 (s) English <i>TTS</i> 5	16-55 Philosophy <i>MWF</i> 2
12-17 (F) English <i>MWF</i> 3	18-1 (s) Oratory <i>MWF</i> 4
12-18 (s) English <i>MWF</i> 3	18-2 (F) Oratory <i>MWF</i> 4
12-23 (F) English <i>MF</i> 78	{ 22-1 German T <i>MWF</i> 5; J <i>TTS</i> 3
12-24 (F) English <i>TTS</i> 2	22-2 German T <i>MWF</i> 2; J <i>MWF</i> 3
12-25 English <i>TTS</i> 4	22-3 German T <i>MWF</i> 4; J <i>MWF</i> 4
12-29 English <i>Tu</i> 67	22-3A German <i>F</i> 6
12-36 (s) English <i>TTS</i> 2	22-3B German <i>TTS</i> 4
14-4 (F) Mathematics <i>TTS</i> 4	22-4 German <i>MWF</i> 5
14-5 (s) Mathematics <i>TTS</i> 4	22-5 German <i>TTS</i> 5
14-6 (F) Mathematics <i>TTS</i> 2	24-1 Physics <i>Tu S</i> 4 Laboratory <i>M Tu W Th</i> or <i>F</i> 678
14-7 (s) Mathematics *	24-2 (F) Physics <i>MWF</i> 5
14-8 (s) Mathematics <i>TTS</i> 3	24-6 (s) Physics <i>MWF</i> 5
14-9 (F) Mathematics <i>TTS</i> 3	24-7 Physics <i>W</i> 678
4-10 (s) Mathematics <i>TTS</i> 2	
14-12 (F) Mathematics *	

24-11 (F) Physics *	36-7 (s) History <i>TTS 5</i>
24-17 Physics *	36-15 History *
24-20 Physics <i>TTS 4</i> Laboratory on <i>M Tu W Th</i> or <i>F 678</i>	38-1 (F) Music <i>Tu 6 Th 67</i>
24-21 Physics <i>TT 7</i>	38-9 (F) Music <i>J TTS 2</i>
26-1 (F) Education <i>TTS 1</i>	38-10 (s) Music <i>J TTS 2</i>
26-4 (s) Education <i>TTS 1</i>	38-21 (s) Music <i>Tu 6 Th 67</i>
26-5 (F) Education <i>MWF 1</i>	38-24 (s) Music *
26-7 (s) Education *	38-25 Music *
28-4 (s) Class. Arch. <i>MWF 4</i>	42-1 Italian <i>MWF 3</i>
28-5 (F) Class. Arch. <i>MWF 4</i>	44-1 Biology <i>TT 678</i>
28-7 (F) Class. Arch. <i>MWF 5</i>	44-3 Biology <i>MF 678</i>
28-8 (s) Class. Arch. <i>MWF 5</i>	44-7 Biology <i>MF 678</i>
32-1 French <i>MWF 6</i>	44-8 Biology *
32-1A French *	44-11 Biology <i>MF 678</i>
32-2 French T <i>MWF 2</i> ; J <i>MWF 7</i>	44-12 Biology <i>TT 5</i>
32-3 French T <i>MWF 4</i> ; J <i>MWF 6</i>	44-13 (s) Biology <i>S 1</i>
32-3B French <i>TTS 4</i>	46-10 Public Law <i>MWF 3</i>
32-4 French <i>TTS 2</i>	52-1 Latin T <i>MWF 3</i> ; J <i>TTS 3</i>
32-5 French <i>TTS 3</i>	52-2 Latin <i>TTS 4</i>
34-1 Chemistry <i>TT 5</i> Laboratory <i>Tu</i> or <i>Th 678</i>	52-3 Latin <i>TTS 2</i>
34-4 Chemistry <i>TTS 123</i>	52-5 Latin *
34-5 Chemistry <i>TTS 123</i>	52-6 Latin *
34-7 (s) Chemistry <i>WF 678</i>	54-1 (s) Geology <i>TTS 3</i> or <i>4</i>
34-8 (s) Chemistry <i>WF 4</i>	54-5 (F) Geology <i>W 5678</i> ; <i>F 6</i>
34-9 (F) Chemistry <i>F 123</i>	54-23 (s) Geology <i>W 5</i>
34-11 Chemistry <i>MF 5</i> ; <i>M 678</i>	54-24 (s) Geology <i>W 678</i> ; <i>F 6</i>
34-12 (F) Chemistry *	62-1 Greek <i>MWF 3</i> ; <i>TTS 2</i>
34-16 Chemistry *	62-2 Greek <i>TTS 5</i>
34-17 Chemistry <i>TT 8</i> ; <i>M 123</i>	62-3 Greek <i>TTS 3</i>
34-19 (F) Chemistry *	62-6 Greek *
34-20 Chemistry <i>TTS 5</i> Laboratory <i>Tu</i> or <i>Th 678</i>	64-1 (F) Mineralogy <i>M 45</i> ; <i>TT 67</i>
34-22 Chemistry <i>MWF 123</i>	66-1 Pol. Science <i>MWF 3</i>
35-2 (F) Chemistry <i>MF 123</i> or <i>678</i>	66-2 (F) Pol. Science <i>MWF 4</i>
35-3 (s) Chemistry <i>MF 678</i>	66-3 (F) Pol. Science <i>MWF 2</i>
35-10 Chemistry <i>TTS 5</i> ; <i>W 123</i>	66-6 (F) Pol. Science <i>MWF 2</i>
36-1 History <i>MWF 5</i> or <i>TTS 4</i>	66-7 (s) Pol. Science *
36-2 History <i>TTS 4</i>	66-9 Pol. Science *
36-3 History <i>MWF 4</i>	66-13 (s) Pol. Science <i>MWF 2</i>
36-6 (F) History <i>TTS 5</i>	66-16 (s) Pol. Science <i>MWF 2</i>
	66-17 Pol. Science <i>TTS 3</i>
	66-18 Pol. Science <i>Tce TS 2</i>
	66-22 (s) Pol. Science <i>MWF 4</i>

* Hours to be arranged.



JACKSON COLLEGE FOR WOMEN

CAROLINE STODDER DAVIES, A.M., Dean

Standing Committees

PROMOTIONS: Dean Davies, *Chairman* ; Professors Fay, Neal, Schmidt
and Wilson.

STUDENT ORGANIZATIONS: Dean Davies, *Chairman* ; Professors Fay
and Gilmer.

Faculty of Jackson College for Women

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D. PRESIDENT

CAROLINE S. DAVIES, A.M. DEAN

Professor of English

WILLIAM H. REED, A.M., RECORDING SECRETARY

Assistant Professor of Modern Languages

Professors

Arranged in the order of their service at Tufts College

CHARLES E. FAY, A.M., LITT.D.

Wade Professor of Modern Languages

FRANK W. DURKEE, A.M.

Chemistry

LEO R. LEWIS, A.M.

History and Theory of Music

FRANK G. WREN, A.M.

Walker Professor of Mathematics

FRED D. LAMBERT, PH.D.

Botany

WILLIAM K. DENISON, A.M.

Latin Language and Literature

*HENRY C. METCALF, PH.D.

Jackson Professor of Political Science

EDWIN C. BOLLES, PH.D., D.D., LL.D.

Dickson Professor of English and American History

WILLIAM R. RANSOM, A.M.

Mathematics

ALFRED C. LANE, PH.D., SC.D.

Pearson Professor of Geology and Mineralogy

HENRY I. CUSHMAN, A.M., D.D.

Homiletics

HINCKLEY G. MITCHELL, D.D.

Hebrew and Old Testament Exegesis

*Absent on leave.

ARTHUR I. ANDREWS, PH.D.

History and Public Law

KARL SCHMIDT, PH.D.

Philosophy and Education

LEE S. MCCOLLESTER, S.T.D.

Packard Professor of Christian Theology

HERBERT V. NEAL, PH.D.

Zoology

CLARENCE R. SKINNER, A.M.

Applied Christianity

CHARLES H. GRAY, PH.D.

English

Assistant Professors

Arranged in the order of their service at Tufts College

ALEXANDER DILLINGHAM, A.M.

Mathematics

ALBERT H. GILMER, A.M.

English

HENRY H. MARVIN, PH.D.

Physics

EUGENE H. BABBITT, A.B.

Modern Languages

RALPH B. WILSON, A.M.

Political Science

WILLIAM F. WYATT, PH.D.

Greek

Instructors

CROSBY F. BAKER, M.S.

Chemistry

JOSEPH CHANDLER, PH.D.

Organic Chemistry

JOHN L. C. KEEGEN, A.M.

English

NATHANIEL H. KNIGHT, B.S.

Physics

MARY C. MURRAY

Physical Education

FRANK W. POTE, B.S.

Physics

AUGUSTE L. POULEUR, M.S.

Chemistry

HARRIS RICE, S.B.

Walker Special Instructor in Mathematics

LLOYD P. RICE, A.M.

Political Science

EDWIN A. SHAW, M.S.

Education

CARL W. STAPLES, B.S.

Chemistry

House Mistresses

MRS. DOROTHY CHAMBERLAIN

Richardson House

MRS. MARY C. HULL

Gamma House

MISS MARY C. MURRAY

Alpha House

MRS. GRACE G. WATERMAN

Metcalf Hall

Jackson College for Women

Women are admitted to the courses of instruction given at Tufts College on the same terms as men. The Faculty of Jackson College for Women is the same as the Faculty of the School of Liberal Arts and in many cases, particularly in the sciences, the men and women attend classes in common and work in the same laboratories.

The buildings exclusively occupied by Jackson College are six in number. Miner Hall contains the office of the Dean of Women, reception rooms and various classrooms. It is located near the College Library. Metcalf Hall is the principal dormitory, and contains the refectory; this building serves as a general headquarters for the women students, and its plan and furnishings are well adapted to this purpose. Alpha House, Richardson House, and Gamma House are smaller dormitories, each under the direct supervision of a resident house mistress. The Dean of Women resides in a cottage adjoining Metcalf Hall, where women students are free to call upon her at such times as they may desire to meet her in her home, or to seek special counsel or advice.

The women's gymnasium is a small building excellently equipped with apparatus. The main room is frequently used as an auditorium, as it contains a small stage well supplied with facilities for various dramatic activities.

The requirements for the degrees of A.B. or B.S. are the same as in Tufts College. All graduates of Jackson College receive the diploma of Tufts College.

EXPENSES

The tuition charges and incidental expenses are the same as in the School of Liberal Arts, with the exception of the charge for Physical Education, which is ten dollars rather than fifteen dollars. Room rent in the several dormitories may be tabulated as follows; the prices given are the rate per student per term.

Dormitories for Women

Double Rooms				
	Metcalf	Richardson	Alpha	Total
\$20.00	1	.	.	1
22.50	2	.	.	2
25.00	.	.	1	1
27.50	.	.	1	1
30.00	2	7	3	12
37.50	4	.	.	4
42.50	4	.	.	4
Total Double Rooms	13	7	5	25
Single Rooms				
\$20.00	1	.	1	2
25.00	1	.	.	1
30.00	.	4	.	4
37.50	4	.	.	4
Total Single Rooms	6	4	1	11
Total	19	11	6	36

Students are required to reside in the dormitories or with their families unless permitted by the Dean to make other arrangements.

All resident students board at Metcalf Hall.

Payment of table-board (to Mrs. Grace G., Waterman or order) must be made on or before the first Monday of each month. Board must be paid promptly in advance, *viz.* on registration day to the first Monday in October and thereafter monthly. The present charge for a month (four weeks) is twenty dollars.

For absences due to a student's illness and lasting more than one week, deduction will be made from the board bill.

REGISTRATION

The conditions controlling admission to Jackson College are in general the same as those controlling admission to any of the associated schools and are given in detail in the earlier part of this publication. Those intending to enroll as students should make their intentions known to the Dean as early as possible.

PHYSICAL EDUCATION

MISS MURRAY

This subject is required during the Freshman and Sophomore years for healthful recreation, corrective and hygienic purposes. A medical examination, including physical measurements, is given at the beginning and end of the course. Class exercise includes gymnasium work, æsthetic dancing and basket ball drill. Weekly lectures on Hygiene and Physiology are given during the first term in the Freshman year. Superintended outdoor sports are required during the autumn; these include basket ball, tennis, volley ball and field hockey.

SCHOLARSHIPS

In addition to the scholarships named below, with the amount of their endowments, a portion of the scholarship funds of Tufts college has been set apart for the students of Jackson College. Applications should be addressed to the Committee on Scholarships.

THE JOHN AND LUCY H. STOWE SCHOLARSHIPS. (5) \$10,000
Five scholarships for women students. Founded in 1894 and 1902 by Mrs. Lucy H. Stowe of Lawrence.

THE MARY AND LUTHER GILBERT SCHOLARSHIPS. (2) \$4,000
Two scholarships. Founded in 1902 and 1904 by Mrs. Mary G. Knight, of Roxbury, for the benefit of women.

THE CHARLES A. AND CORNELIA B. SKINNER SCHOLARSHIP. \$1,000
Founded in 1907 by Rev. Charles A. Skinner, D.D., and Mrs. Cornelia B. Skinner, of Cambridge, Mass.

THE ALPHA OMICRON PI PRIZE SCHOLARSHIP.
An annual gift of \$50. by the Alumnae of the Tufts Chapter of Alpha Omicron Pi, and given to that woman in the senior class who shall have made the best record in the prescribed work of the A. B. Course.

THE ALPHA XI DELTA PRIZE SCHOLARSHIP.
An annual gift of \$50. by the Lambda Chapter and Alumnae of Alpha Xi Delta and given annually to that senior who, at the end of the Junior year, shall have maintained the highest excellence in a course of study broadly and wisely chosen.

THE CHI OMEGA PRIZE SCHOLARSHIP.

An annual gift of \$50. by the Alumnæ of the Chi Alpha Chapter of Tufts College, to be given annually to a student of Jackson College who at the end of her Junior year has attained commendable scholarship in Economics and Sociology and has shown a keen interest in Social Service. The purpose of this scholarship is to encourage practical work during her Senior year.

THE BOSTON ALUMNÆ CHAPTER OF SIGMA KAPPA SCHOLARSHIP.

An annual gift of \$50. by the Boston Alumnæ Chapter of Sigma Kappa, representing Boston University and Jackson College, available at Boston University on the even year, beginning 1914, and at Jackson College on the odd year, to be given to a sorority or non-sorority girl, worthy in character and scholarship, who is struggling to meet the expenses of a college education.

LOANS AND AIDS

The Woman's Universalist Missionary Society of Massachusetts maintains a fund for the use of students of Jackson College. The scholarships, which have a value of \$100, are restricted to Universalists. It is understood that the beneficiaries in due time will return an equivalent amount to the Fund.

The Hettie Lang Shuman Memorial Fund was founded in 1905 by Mr. A. Shuman, who presented one thousand dollars to the College, in memory of his wife. The interest of this fund is annually expended in aiding deserving women students.

ENGINEERING SCHOOL

GARDNER CHACE ANTHONY, Sc.D., Dean

Standing Committees

CURRICULUM: Dean Anthony, *Chairman*; Professors Hooper, Durkee, Sanborn, Earle, Chase, and Rockwell.

PROMOTIONS: Dean Anthony, *Chairman*; Professors Ransom, Rockwell, and Assistant Professors Ashley and Conner.

Faculty of the Engineering School

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D., PRESIDENT

GARDNER C. ANTHONY, A.M., SC.D., DEAN

*Professor of Technical Drawing. Actng Head of Department of
Mechanical Engineering*

WILLIAM H. REED, A.M., SECRETARY

Professors

Arranged in the order of their service at Tufts College.

WILLIAM L. HOOPER, A.M., PH.D., LL.D.

Electrical Engineering

FRANK W. DURKEE, A.M.

Chemistry

SAMUEL C. EARLE, A.M.

English

CHARLES H. CHASE, S.B.

Steam Engineering

* HENRY C. METCALF, PH.D.

Political Science

WILLIAM R. RANSOM, A.M.

Mathematics

FRANK B. SANBORN, C.E., M.S.

Civil Engineering

EDWARD H. ROCKWELL, S.B.

Structural Engineering

ALFRED C. LANE, A.M., PH.D., SC.D.

Geology and Mineralogy

Assistant Professors

Arranged in the order of their service at Tufts College.

GEORGE F. ASHLEY

Technical Drawing

EDWIN B. ROLLINS, B.S.

Electrical Engineering

* On leave of absence.

MELVILLE S. MUNRO, B.S.

Electrical Engineering

ALEXANDER DILLINGHAM, A.M.

Mathematics

FRANK E. SEAVEY, A.M.

English

RICHARD C. SMITH, B.S.

Structural Engineering

SAMUEL L. CONNER, M.S.

Railroad Engineering

HOWARD H. CARROLL, S.B.

Technical Drawing.

HENRY H. MARVIN, B.S., PH.D.

Physics

RALPH B. WILSON, A.M.

Political Science

VANNEVAR BUSH, M.S., ENG.D.

Electrical Engineering

Instructors

CONRAD A. ADAMS, B.S.

Mechanic Arts

FREDERICK O. ASPINWALL, M.S.

Chemistry

CROSBY F. BAKER, M.S.

Chemistry

HARRY P. BURDEN, B.S.

Civil Engineering

JOSEPH CHANDLER, PH.D.

Organic Chemistry

SHIRLEY W. HARVEY, A.B.

English

MERRILL C. HILL, A.M.

Modern Languages

NATHANIEL H. KNIGHT, B.S.

Physics

EDGAR MACNAUGHTON, M.E.

Mechanical Engineering

FRANK W. POTE, B.S.

Physics

AUGUSTE L. POULEUR, M.S.

Chemistry

HARRIS RICE, S.B.

Walker Special Instructor in Mathematics

Assistants

IRVING D. MARSHALL

Drawing

FRANK G. WAHLEN

Mechanic Arts

Courses of Instruction

The School offers courses leading to the degree of Bachelor of Science in CIVIL ENGINEERING, STRUCTURAL ENGINEERING, MECHANICAL ENGINEERING, ELECTRICAL ENGINEERING, and CHEMICAL ENGINEERING.

During the first two years the course of study and elective privileges are the same for all departments. The importance of developing the power to write clear and concise English is emphasized by correlating this subject with the work of other departments, thus making it a fundamental subject for technical training. The subjects of Mathematics, Physics, Chemistry, Graphics and of Mechanic Arts, being common to every field of engineering, are required of all students. Introductory engineering courses in Heat, Electricity and Hydraulics are also given to all during the Sophomore year.

The more technical work of the Junior and Senior years is tabulated in the following pages under the headings of the respective departments.

On the pages immediately following the Outline of Courses will be found an index of the subjects, which also indicates the system of numbering.

Following this index is the detailed description of the subjects in numerical order.

REQUIREMENTS FOR THE DEGREE

One hundred and forty term hours are required for graduation, this being the equivalent of about fifty-two hours of study, recitation, and laboratory hours per week. A grade of C or higher must be obtained in at least seventy term hours.

RELATION OF THE SEVERAL DEPARTMENTS

Freshmen and Sophomore	Junior	Senior
General course common to all	Civil and Structural	{ Civil Structural
	Mechanical and Electrical	{ Mechanical Electrical
	Chemical	Chemical

OUTLINE OF COURSES

An index of the subjects, and key to the system of numbering may be found on the pages immediately following the Outline of Courses. Following the index are the details of the subjects in their numerical order.

FRESHMAN YEAR

[Alike for all courses.]

FIRST TERM			SECOND TERM		
	Term	hour		Term	hour
11-1	English	3	11-2	English	3
13-2	†French or	3	13-2	†French or	3
15-2	†German		15-2	†German	
21-4	†Graphics or	{ 3	21-5	Graphics	3
21-6	†Graphics		25-2	†Mechanic Arts	2
25-2	†Mechanic Arts	{ 2	25-3	†Mechanic Arts	
25-3	†Mechanic Arts		29-3	Mathematics	3
29-20	Mathematics	5	31-1	Physics or	{ 3
41-4	Surveying	2	31-31	*Physics	
88	Physical Training	½	31-8	Physics Laboratory	1½
Total		17½ or 18½	88	Physical Training	½
			Total		17 or 20

SOPHOMORE YEAR

[Alike for all courses.]

FIRST TERM			SECOND TERM		
	Term	hour		Term	hour
21-13	Mechanism	3	21-8	Graphics	3
29-4	Mathematics	3	31-7	†Physics Laboratory	1½
31-2	Physics or	{ 3	35-1	Chemistry or	{ 3
31-32	*Physics		35-20	*Chemistry	
31-7	|| Physics Laboratory	1½	41-40	Hydraulic Engineering	3
35-1	Chemistry or	{ 3	45-21	Mechanics	3
35-20	*Chemistry		61-20	Electrical Engineering	
51-20	§ Heat Engineering	2	88	Physical Training	½
88	Physical Training	½	Total		17 or 18
Total		16 or 18			

Electives

English, French or German.

Electives

English, French or German.

†As the courses to be pursued in Modern Language, Graphics and Mechanic Arts are dependent on the preparation of each student, definite instruction for the selection thereof is given at the time of registration.

*Required of those not having one unit entrance credit in the subject.

†(Omit after 1916-17

§After 1916-17 Read "51-1 Heat Engineering 3"

||After 1916-17 Read "31-9"

JUNIOR YEAR (After 1916-17)

CIVIL AND STRUCTURAL ENGINEERING

FIRST TERM

Term hour

35-2	Qualitative Analysis	2
41-12	Railroad Surveying	3
41-46	Water Supplies	3
45-1	Applied Mechanics	3
45-12	Applied Mechanics Laboratory	1
81-1	Economics	3
	Total	15

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3
54-	Geology	
64-1	Mineralogy and Lithology	3

SECOND TERM

Term hour

29-5	Mathematics	3
41-13	Railroad Engineering	3
41-21	Highways	2
41-43	Hydraulic Measurements	2
45-2	Applied Mechanics	3
47-3	Structural Design	3
	Total	16

Electives

11-	English	
17-1	Spanish	3
41-31	Geodesy	2
41-51	Fire Prevention	2
-	Geology	

MECHANICAL AND ELECTRICAL ENGINEERING

FIRST TERM

Term hour

35-2	Qualitative Analysis	2
45-1	Applied Mechanics	3
45-12	Applied Mechanics Laboratory	1
51-24	Mechanical Laboratory	3
61-3	Dynamo-Electric Machinery	3
81-1	Economics	3
	Total	15

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3

SECOND TERM

Term hour

2-	Mechanic Arts	3
29-5	Mathematics	3
4-4	Applied Mechanics	3
51-3	Heat Engineering	3
61-5	Alt. Current Machinery	3
61-8	Electrical Laboratory	3
	Total	18

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3

CHEMICAL ENGINEERING

FIRST TERM

Term hour

35-2	Qualitative Analysis	2
35-4	Quantitative Analysis	3
35-10	Organic Chemistry	4
45-1	Applied Mechanics	3
45-12	Applied Mechanics Laboratory	1
81-1	Economics	3
	Total	16

Electives

11-	English	
17-1	Spanish	3
24-2	Electricity and Magnetism	3
64-1	Mineralogy and Lithology	3
	German 15 or 22	

SECOND TERM

Term hour

29-5	Mathematics	3
35-3	Qualitative Analysis	2
35-4	Quantitative Analysis	3
35-10	Organic Chemistry	4
45-2	Applied Mechanics	3
	Total	15

Electives

11-	English	
17-1	Spanish	3
	German 15 or 22	3

JUNIOR YEAR (For 1916-17 only)

CIVIL AND STRUCTURAL ENGINEERING

FIRST TERM			SECOND TERM		
		Term hour			Term hour
35-2	Qualitative Analysis	2	41-13	Railroad Engineering	3
41-12	Railroad Surveying	3	41-21	Highways	2
41-40	Hydraulics	3	41-43	Hydraulic Measurements	2
45-1	Applied Mechanics	3	45-2	Applied Mechanics	3
45-12	Applied Mechanics Laboratory	1	47-3	Structural Design	3
51-1	Steam Engine	3	81-2	Economics	3
81-2	Economics	3			
	Total	18		Total	16
	<i>Electives</i>			<i>Electives</i>	
11-	English		11-	English	
14-	Mathematics		14-	Mathematics	
54-	Geology		54-	Geology	

MECHANICAL AND ELECTRICAL ENGINEERING

FIRST TERM			SECOND TERM		
		Term hour			Term hour
25-8	Mechanic Arts	3	41-41	Hydraulics	2
35-2	Qualitative Analysis	2	45-4	Applied Mechanics	3
45-1	Applied Mechanics	3	51-3	Heat Engineering	3
45-12	Applied Mechanics Laboratory	1	51-21	Mechanical Engineering Lab.	1
51-1	Steam Engine	3	61-5	Alt. Current Machinery	3
61-3	Dynamo-Electric Machinery	3	61-8	Electrical Laboratory	3
81-2	Economics	3	81-2	Economics	3
	Total	18		Total	19
	<i>Electives</i>			<i>Electives</i>	
11-	English		11-	English	
14-	Mathematics		14-	Mathematics	

CHEMICAL ENGINEERING

FIRST TERM			SECOND TERM		
		Term hour			Term hour
35-2	Qualitative Analysis	2	35-3	Qualitative Analysis	2
35-4	Quantitative Analysis	3	35-4	Quantitative Analysis	3
35-10	Organic Chemistry	4	35-10	Organic Chemistry	4
45-1	Applied Mechanics	3	41-41	Hydraulics	2
45-12	Applied Mechanics Laboratory	1	45-4	Applied Mechanics	3
51-1	Steam Engine	3	81-2	Economics	3
81-2	Economics	3			
	Total	19		Total	17
	<i>Electives</i>			<i>Electives</i>	
11-	English		11-	English	
14-	Mathematics		14-	Mathematics	
24-2	Electricity and Magnetism	3		German 15 or 22	3

SENIOR YEAR

CIVIL ENGINEERING

FIRST TERM

Term hour

41-14	Railroad Engineering	3
*41-46	Water Supplies	3
41-95	Civil Engineering Topics	2
45-3	Structural Mechanics	3
47-1	Roofs and Bridges	3
	Total	14

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3
35-4	Quantitative Analysis	3
41-47	Water Power Engineering	3
47-7	Bridge Design	3
64-	Mineralogy	
66-	Economics	

SECOND TERM

Term hour

41-48	Sewerage	3
41-63	Contracts	3
41-99	Thesis	3-5
	Total	9-11

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3
35-4	Quantitative Analysis	3
41-17	Railroad Economics	3
47-2	Theory of Structures	3
47-8	Structural Design	2
54-	Geology	
66-	Economics	

STRUCTURAL ENGINEERING

FIRST TERM

Term hour

*41-46	Water Supplies	3
45-3	Structural Mechanics	3
47-1	Roofs and Bridges	3
47-7	Bridge Design	3
47-95	Structural Topics and Reports	2
	Total	14

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3
41-14	Railroad Engineering	3
41-21	Highways	2
41-47	Water Power Engineering	3
64-	Mineralogy	
66-	Economics	

SECOND TERM

Term hour

47-2	Theory of Structures	3
47-8	Structural Design	2
47-99	Thesis	3-5
	Total	8-10

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3
41-17	Railroad Economics	3
41-31	Geodesy	2
41-48	Sewerage	3
41-51	Fire Prevention	2
41-63	Contracts	3
54-	Geology	
66-	Economics	

* Omit from Senior year after 1917-18

MECHANICAL ENGINEERING

FIRST TERM			SECOND TERM		
		Term hour			Term hour
51-7	Engine Design	3	51-8	Power Plant Design	3
51-15	Dynamics of Machinery	3	51-18	Machine Design	3
51-18	Machine Design	3	51-28	Mechanical Engineering Lab.	3
51-26	Mechanical Engineering Lab.	3	51-99	Thesis	3
	Total	12		Total	12
<i>Electives</i>			<i>Electives</i>		
11-	English		11-	English	
14-	Mathematics		14-	Mathematics	
17-1	Spanish	3	17-1	Spanish	3
41-47	Water Power Engineering	3	41-63	Contracts	3
61-12	Dynamo Laboratory	3	51-95	Mech. Engineering Topics	2
61-14	Electricity	3	61-14	Electricity	3
61-15	Electrical Engineering	3	61-16	Electrical Engineering	3
61-23	Dynamo Design	3	66-	Economics	
66-	Economics				
81-5	Engineering Economics	3			

ELECTRICAL ENGINEERING

FIRST TERM			SECOND TERM		
		Term hour			Term hour
61-12	Dynamo Laboratory	3	51-14	Electricity	3
61-14	Electricity	3	61-16	Electrical Engineering	3
61-15	Electrical Engineering	3	61-99	Thesis	3-5
61-23	Dynamo Design	3		Total	9-11
	Total	12			
<i>Electives</i>			<i>Electives</i>		
11-	English		11-	English	
14-	Mathematics		14-	Mathematics	
17-1	Spanish	3	17-1	Spanish	3
41-47	Water Power Engineering	3	41-63	Contracts	3
51-7	Engine Design	3	51-8	Power Plant Design	3
51-15	Dynamics of Machinery	3	51-18	Machine Design	3
51-18	Machine Design	3	51-28	Mechanical Engineering Lab.	3
51-26	Mechanical Engineering Lab.	3	61-96	Electrical Topics	2
61-17	Telephone and Telegraph	3	66-	Economics	
66-	Economics				
81-5	Engineering Economics				

CHEMICAL ENGINEERING

FIRST TERM			SECOND TERM		
		Term hour			Term hour
35-5	Quantitative Analysis	3	35-5	Quantitative Analysis	3
35-9	Gas Analysis	1	35-7	Fire Assay	2
35-11	Theoretical Chemistry	3	35-8	Metallurgy	2
35-17	Applied Chemistry	3	35-11	Theoretical Chemistry	3
61-3	Dynamo-Electric Machinery	3	35-17	Applied Chemistry	3
	Total	13	35-99	Thesis	3-5
				Total	16-18
<i>Electives</i>			<i>Electives</i>		
11-	English		11-	English	
14-	Mathematics		14-	Mathematics	
	German 15 or 22	3		German 15 or 22	3
17-1	Spanish	3	17-1	Spanish	3
41-46	Water Supplies	3	41-48	Sewerage	3
54-	Geology		54-	Geology	3
64-	Mineralogy		61-8	Electrical Laboratory	3
66-	Economics		66-	Economics	
81-5	Engineering Economics	3			

Index to Subjects

No.	Term Hours	SUBJECT	No.	Term Hours	SUBJECT
11 ENGLISH					
11-1	3	English (First Term)	35-17	*6	Applied Chemistry
11-2	3	English (Second Term)	35-20	||8	Chemistry
11-4	2	English Composition	35-99	3-5	Chemical Engineering Thesis
11-5	3	General English Literature		41	CIVIL ENGINEERING
11-6	2	English Literature, 19th Century	41-4	2	Surveying
11-7	2	Advanced English Literature	41-12	3	Railroad Surveying
11-8	2	Technical Exposition	41-13	3	Railroad Engineering
11-9	2	Technical Theses	41-14	* 3	Railroad Engineering
11-13	3	Argumentation	41-17	3	Railroad Engineering Economics
13 FRENCH					
13-1	*6	French	41-21	2	Highways
13-2	*6	French	41-31	2	Geodesy
13-3	3	French	41-40	3	Hydraulic Engineering
15 GERMAN					
15-1	*6	German	41-41	2	Hydraulics
15-2	*6	German	41-43	2	Hydraulic Measurements
15-3	3	German	41-46	3	Water Supplies
17 SPANISH					
17-1	*6	Spanish	41-47	3	Water Power Engineering
21 DRAWING					
21-4	3	Graphics	41-48	3	Sewerage
21-5	3	Graphics	41-51	2	Fire Prevention
21-6	2	Graphics	41-63	3	Contracts
21-8	3	Graphics	41-95	2	Civil Engineering Topics
21-13	3	Mechanism	41-99	3-5	Civil Engineering Thesis
25 MECHANIC ARTS					
25-2	2	Wood Working		45	APPLIED MECHANICS
25-3	2	Pattern Making	45-1	3	Applied Mechanics
25-8	3	Metal Work	45-2	3	Applied Mechanics
29 MATHEMATICS					
29-3	3	Freshman Calculus	45-3	3	Structural Mechanics
29-4	3	Sophomore Calculus	45-4	3	Applied Mechanics
29-5	3	Sophomore Calculus	45-12	1	Applied Mechanics Laboratory
29-20	5	Analysis and Computation	45-21	3	Mechanics
31 PHYSICS					
31-1	3	Physics		47	STRUCTURAL ENGINEERING
31-2	3	Physics	47-1	3	Roofs and Bridges
31-7	\$3	Physics Laboratory	47-2	3	Theory of Structures
31-8	1½	Physics Laboratory	47-3	3	Structural Design
31-9	1½	Physics Laboratory	47-7	3	Bridge Design
31-31	4	Physics	47-8	2	Structural Design
31-32	4	Physics	47-95	2	Structural Topics and Reports
35 CHEMISTRY					
35-1	*6	General Inorganic Chemistry	47-99	3-5	Structural Engineering Thesis
35-2	2	Qualitative Analysis		51	MECHANICAL ENGINEERING
35-3	2	Qualitative Analysis, Advanced	51-1	3	Heat Engineering
35-4	*6	Quantitative Analysis	51-3	3	Heat Engineering
35-5	*6	Quantitative Analysis, Technical	51-7	3	Engine Design
35-7	2	Fire Assay	51-8	3	Power Plant Design
35-8	2	Metallurgy of Iron and Steel	51-15	3	Dynamics of Machinery
35-9	1	Technical Gas Analysis	51-18	*6	Machine Design
35-10	||8	Organic Chemistry	51-20	2	Heat Engineering
35-11	*6	Theoretical Chemistry	51-21	2	Mechanical Engineering Labora- tory
			51-24	3	Mechanical Laboratory
			51-26	3	Mechanical Engineering Labora- tory
			51-28	3	Mechanical Engineering Labora- tory
			51-95	2	Mechanical Engineering Topics
			51-99	3	Mechanical Engineering Thesis

* Two terms; three term hours each.

† Two terms; first term, one term hour; second term, two term hours.

|| Two terms; four term hours each.

\$ Two terms; one and one-half term hours each.

** Two terms; two term hours each.

*** Two terms; one term hour each.

54 GEOLOGY

54-1	3	Physical Geology and Geography
54-5	3	Physical Geology
54-21	1	Physical Geography and Meteorology
54-22	2	Physical Geology
54-23	1	Economic Geology
54-24	2	Historical Geology

61-15	3	Electrical Engineering
61-16	3	Electrical Engineering
61-17	3	Telephone and Telegraph
61-20	3	Electrical Engineering
61-23	3	Dynamo Design
61-27	3	Radio Engineering
61-96	2	Electrical Topics
61-99	3-5	Electrical Engineering Thesis

61 ELECTRICAL ENGINEERING

61-3	3	Dynamo-Electric Machinery
61-5	3	Alternating Current Machinery
61-8	3	Electrical Laboratory
61-12	3	Dynamo Laboratory
61-14	*6	Electricity

64 MINERALOGY

64-1	3	Mineralogy and Lithology
64-2	3	Crystallography and Advanced Mineralogy

81 POLITICAL ECONOMY

81-2	*6	Elements of Economics
81-5	3	Engineering Economics

* Two terms ; three term hours each.

Examination Group System

The courses are divided into six groups. Each of these groups has assigned to it three periods of four days each for each half year, during which periods all announced examinations in the courses of that group are given. These examinations are limited to the time assigned to these subjects on the program.

Composition of groups and periods allotted to each are as follows :

FIRST HALF-YEAR

Subject Group	Subject Group	Subject Group	Subject Group
11-1 5	31-2 6	41-14 5	51-15 1
11-5 3	31-7 5	41-40 5	51-18 3
11-9 5	31-32 6	41-46 6	51-20 3
11-13 5	35-1 1	41-47 2	51-26 5
13-1 6	35-2 4	41-95 3	61-3 5
13-2 6	35-4 1	45-1 1	61-12 5
13-3 3	35-5 1	45-3 1	61-14 6
15-1 6	35-9 4	45-12 3	61-15 3
15-2 6	35-10 5	47-1 3	61-17 2
15-3 3	35-11 5	47-7 4	61-23 4
17-1 4	35-17 3	47-95 3	81-2 6
21-4 3	35-20 1	51-1 2	81-5 2
21-6 3	41-4 6	51-7 6	
21-13 4	41-12 6		
25-2 4			
25-3 4			
25-8 4			
29-4 2			
29-20 2			
roup 1. Oct. 20, 21, 23, 24.	Nov. 17, 18, 20, 21.	Jan. 5, 6, 8, 9.	
" 2. Oct. 25, 26, 27, 28.	Nov. 22, 23, 24, 25.	Jan. 10, 11, 12, 13.	
" 3. Oct. 30, 31. Nov. 1, 2.	Nov. 27, 28. Dec. 1, 2.	Jan. 15, 16, 17, 18.	
" 4. Nov. 3, 4, 6, 7.	Dec. 4, 5, 6, 7.	Jan. 19, 20, 22, 23.	
" 5. Nov. 8, 9, 10, 11.	Dec. 8, 9, 11, 12.	Jan. 24, 25, 26, 27.	
" 6. Nov. 13, 14, 15, 16.	Dec. 13, 14, 15, 16.	Jan. 29, 30, 31. Feb. 1.	

Final Examinations February 2, 3, 5, 6, 7.

SECOND HALF-YEAR

Subject Group	Subject Group	Subject Group	Subject Group
11-2 5	31-7 3	41-21 3	51-8 6
11-4 5	31-8 6	41-31 3	51-18 4
11-6 3	31-31 2	41-40 4	51-21 3
11-8 3	35-1 1	41-41 5	51-28 5
11-9	35-3 6	41-43 5	51-95 3
13-1 6	35-4 1	41-48 4	61-5 2
13-2 6	35-5 1	41-51 2	61-8 4
15-2 6	35-7 6	41-63 1	61-14 2
15-4 6	35-8 4	45-2 1	61-16 4
17-1 4	35-10 5	45-4 1	61-20 5
21-5 3	35-11 5	45-21 4	61-27 2
21-8 6	35-17 3	47-2 6	61-96 3
25-2 4	35-20 1	47-3 2	81-2 6
25-3 4	41-13 4	47-8 3	
29-3 1	41-17 5	51-3 4	
29-5 2			
31-1 2			

Group 1.	Mar. 1, 2, 3, 5.	Mar. 29, 30, 31.	Apr. 2.	May 8, 9, 10, 11.
" 2.	Mar. 6, 7, 8, 9.	Apr. 3, 4, 5, 6.		May 12, 14, 15, 16.
" 3.	Mar. 10, 12, 13, 14.	Apr. 7, 9, 10, 11.		May 17, 18, 19, 21.
" 4.	Mar. 15, 16, 17, 19.	Apr. 12, 13, 14, 16.		May 22, 23, 24, 25.
" 5.	Mar. 20, 21, 22, 23.	Apr. 28, 30.	May 1, 2.	May 26, 28, 29, 31.
" 6.	Mar. 24, 26, 27, 28.	May 3, 4, 5, 7.		June 1, 2, 4, 5.

Final examinations, June 9, 11, 12, 13, 14.

Departments of Instruction

ENGLISH and MODERN LANGUAGES

11-1 English. A study of the elemental forms of literary and scientific writing: description, exposition, directions, criticism, argument, and narration, with the ultimate aim of helping the student to think for himself. Reading of illustrative literature. *One lecture and three recitations a week.*

First term. Three term hours.

ASSISTANT PROFESSOR SEAVEY, PROFESSOR EARLE, and ASSISTANTS

11-2 English. A study of actual problems in expression. Reading in general science and literature under the guidance of weekly lectures. *Three recitations a week. Preparation, 11-1.*

Second term. Three term hours.

ASSISTANT PROFESSOR SEAVEY, PROFESSOR EARLE, and ASSISTANTS

11-4 English. An advanced subject in general composition, including the writing of daily and fortnightly themes. *Two periods a week. Preparation, 11-2.*

Second term. Two term hours. PROFESSOR EARLE and Mr. HARVEY

11-5 English. A brief survey of English literature and history, from the beginnings to about 1750, aiming to broaden the student's appreciation of what he may get from books, and to suggest ways in which the past throws light on the problems of the present. *Three periods a week. Preparation, 11-2.*

First term. Three term hours.

PROFESSOR EARLE, ASSISTANT PROFESSOR SEAVEY, and Mr. HARVEY

11-6 English. A study of some of the most important literary and scientific developments of the nineteenth century. *Three periods a week. Preparation, 11-2.*

Second term. Two term hours.

PROFESSOR EARLE, ASSISTANT PROFESSOR SEAVEY, and Mr. HARVEY

11-7 English. Advanced English literature. A study of some author, period, or type. The definite work to be carried on will be outlined by the instructor in charge each June for the following term. *Three periods a week: two recitations and one thirty-minute conference. Preparation, 11-6.*

First term. Two term hours.

11-8 English. A detailed study of the most important problems of technical writing. *Two periods a week. Preparation, 11-2.*

Second term. Two term hours.

PROFESSOR EARLE and ASSISTANT PROFESSOR SEAVEY

11-9 English. An advanced subject in technical composition. No class meetings; each student writes papers from ten to fifty pages in length under the individual direction of the instructor. The subjects are taken, as far as possible, from technical work previously done by the student outside of college, or from special research. *One thirty-minute conference a week. Preparation, 11-8.*

First term; repeated in second term. Two term hours.

PROFESSOR EARLE and ASSISTANT PROFESSOR SEAVEY

11-13 English. Argumentative composition adapted to meet the special needs of engineers. *Three periods a week. Preparation, 11-2.*

First term. Three term hours.

PROFESSOR EARLE

13-1 French. Elementary course. The essentials of grammar, with composition. Reading of short works of modern authors in prose and verse. Open to Freshmen whose entrance language is Latin, Greek, or Advanced German. *Three recitations a week.*

First and second terms. Six term hours.

MR. HILL

13-2 French. Review of grammatical principles especially with reference to difficulties encountered in translation. Outside reading of modern French novels. Class room work consisting of scientific reading from *L'annee Scientifique et Industrielle* for 1913. *Three recitations a week. Preparation, elementary credit in French, or 13-1.*

First and second terms. Six term hours.

MR. HILL

15-1. German. Elementary course. The essentials of grammar with composition. Reading of short works by modern authors. Grammar: Vos' Essentials of German or Harris' German Lessons. Open to Freshmen whose entrance Language is Latin, Greek or Advanced French. *Three recitations a week.*

First and second terms. Six term hours.

MR. HILL

15-2 German. Review of grammatical principles, especially with reference to difficulties encountered in translation. Outside reading of modern German texts. Class room work consisting of reading from German scientific works. *Three recitations a week. Preparation, elementary entrance credit in German, or 15-1.*

First and second term. Six term hours.

MR. HILL

15-3 German. The rapid reading of modern technical prose in contemporary authors. Outside reading of modern novels. Elective for Sophomores, Juniors and Seniors who have passed 15-2 or its equivalent with at least a grade of B. *Three recitations a week.*

First term. Three term hours.

MR. HILL

15-4. German. Continuation of 15-3. *Three recitations a week.*

Second term. Three term hours.

MR. HILL

17-1 Spanish. Elementary course. The essentials of grammar; reading of modern prose; practice in writing Spanish. Open to those who have received a grade of C or higher in French 13-2, or German 15-2. All others wishing to elect the subject should consult the instructor. *Three recitations a week.*

First and second terms. Six term hours.

21 DRAWING

21-4 Graphics. Required of those who have had little or no previous instruction in technical drawing. The course consists of exercises in the proper use and care of drafting tools; a thorough study of the principles of orthographic projection with applied problems relating to engineering drawing; isometric and perspective projections. Special attention is given to lettering, tracing, sketching and dimensioning. *Three periods a week; two hours each.*

First term. Three term hours.

ASSISTANT PROFESSORS ASHLEY and CARROLL.

21-5 Graphics. A study of the principles of descriptive geometry and its application to engineering by the solution of problems in which theory and practice are closely correlated. *Three periods a week; two hours each. Preparation, 21-4 or 21-6.*

Second term. Three term hours.

ASSISTANT PROFESSORS CARROLL and ASHLEY.

21-6 Graphics. Required of those who have had entrance credit or two or more years of previous instruction in technical drawing. The course consists of applied problems in orthographic projection; isometric and perspective projection; sketching and the reading and translation of drawings. Special attention is given to lettering, tracing and dimensioning. *Two period a week; two hours each with preparation.*

First term. Two term hours.

ASSISTANT PROFESSORS ASHLEY and CARROLL

21-8 Graphics. A study of the technique of graphic expression and its application in giving such complete and accurate information as is necessary for the practicing engineer. Emphasis is placed on the reading, as well as the making, of such drawings as are used in good practice in order to give familiarity with those methods and idioms of graphic expression which are accepted as standard by most draftsmen. Drafting practice is obtained by making detailed and assembly drawings from such data as will eliminate the possibility of copying. *Three periods a week; two hours each. Preparation, 21-4 or 21-6.*

Second term. Three term hours.

ASSISTANT PROFESSORS CARROLL and ASHLEY

21-13 Mechanism. An introductory course, conducted mainly by graphical methods, and dealing with the fundamental laws governing the velocity ratio and paths of mechanical movements and their application to velocity diagrams, simple types of gearing, and other modes of transmission. *Three periods a week; two hours each. Preparation, 21-4 or 21-6. First term. Three term hours.*

ASSISTANT PROFESSORS ASHLEY and CARROLL

25 MECHANIC ARTS

25-2. Woodworking. The course is intended to give a practical knowledge of woodworking hand tools and woodworking machines. Instruction is given in laying out work, sawing, planing, chiseling, boring, fitting, band and circular sawing, and is followed by lathe work, which includes center, chuck and face plate turning. Consideration is given to various commercial processes and manufacturing details. The laboratory work is based upon lectures, notes and class demonstrations. Frequent tests are given to insure a thorough knowledge of the principles involved. *Two periods per week; three hours each.*

First or second terms. Two term hours.

MR. ADAMS

25-3 Pattern Making. This is a laboratory course which comprises a study of the methods and principles of foundry practice leading to a knowledge of the requirements of pattern making. The course in pattern making consists of the layout and construction of split patterns, core boxes and built up work. The requirements of the moulder are constantly kept in mind and the several methods of construction possible in each case are discussed. Modern foundry and pattern shop methods are studied. The work in the shop is based on lectures, assignments from the text and class demonstrations, with frequent tests concerning the work at hand. *Two periods per week; three hours each.*

First or second term. Two term hours. Preparation 25-2 or its equivalent.

25-8 Metal Work. This course is introduced by work at the forge in bending, drawing, upsetting, welding, tool-dressing, etc., followed by work at the vise in chipping, filing, and fitting. Lathe work, including straight and taper turning, chucking, boring, reaming, and thread cutting; also drilling, planing, shaper and milling-machine work. *Textbook; Three periods per week; two of three and one-half hours each and one of one hour.*

First term. Three term hours.

MR. ADAMS

29 MATHEMATICS

29-3 Freshman Calculus. Fundamental principles. Algebraic differentials and integrals. Differential and integral rate problems. Maxima and Minima. Transcendental functions. Areas. *Three periods a week; one hour each.*

Second term. Three term hours. Preparation, 29-20.

PROFESSOR RANSOM, ASSISTANT PROFESSOR DILLINGHAM and MR. RICE

29-4 Sophomore Calculus. Review of differentiation and integration. Applications. Summation problems. Use of tables. Centroids, moments and averages. *Three hours a week. Preparation, 29-3.*

First term. Three term hours.

PROFESSOR RANSOM, ASSISTANT PROFESSOR DILLINGHAM and MR. RICE

29-5 Junior Mathematics. Approximate integration. Multiple integrals. Taylor's Theorem, and errors. Fourier's Series. Elements of Differential Equations. *Three hours a week. Preparation, 29-4.*

Second term. Three term hours.

PROFESSOR RANSOM and ASSISTANT PROFESSOR DILLINGHAM

29-20 Analysis and Computation. Rounded numbers, trigonometric functions, 4- and 7-place logarithms, slide rule. Plane and right spherical triangles. Graphical representation of functions, typical variables. Rectangular coordinates, straight lines, conic sections and standard curves. *Five periods a week.*

First term.

PROFESSOR RANSOM, ASSISTANT PROFESSOR DILLINGHAM and MR. RICE

31 PHYSICS

31-1 Physics. The subjects considered are composition of forces static and kinetic equilibrium, the laws of motion, the energy principle, the simple types of motion including uniform and uniformly accelerated motion, rotation about a fixed axis, simple harmonic motion, and wave motion and resonance; in heat, thermometry, expansion, calorimetry, change of state, transfer, sources, uses, and the laws of thermodynamics. *One lecture and two recitations per week. Preparation, 29-20 and entrance Physics.*

Second term. Three term hours.

ASSISTANT PROFESSOR MARVIN, MR. POTE, and MR. KNIGHT

31-2 Physics. The subject of heat is carried over from the previous semester. Following this, the subjects considered are: Optics, sources of light, photometry, velocity, reflection, refraction, optical instruments, dispersion, color, interference, diffraction, polarization; in electricity, electrostatics, the condenser, the electric current, Ohm's law and applications,

power, magnetism, the magnetic circuit, electromagnetic induction, the principles of direct and alternating current machines and instruments.

One lecture and two recitations per week. Preparation, 31-1 or 31-31.

First term. Three term hours.

ASSISTANT PROFESSOR MARVIN, MR. POTE, and MR. KNIGHT

31-7 Physics Laboratory. The equivalent of 31-8 and 31-9.

31-8 Physics Laboratory. The first experiments relate to the use of the usual instruments for precise measurement and to the mechanics of solids, liquids and gases. These are followed by experiments in heat, including thermometry, vapor pressure, expansion, calorimetry and mechanical equivalent. The use of graphical methods of interpreting data is taught in connection with these experiments. *One three hour period, with one and one-half hours preparation weekly. Preparation, 31-1, or 31-31, simultaneously.*

Second term. One and one-half term hours.

ASSISTANT PROFESSOR MARVIN, MR. POTE, and MR. KNIGHT

31-9 Physics Laboratory. The experiments in heat, begun in 31-8, are completed. These are followed by experiments in optics and electricity. The experiments in optics include refraction, elementary spectrum analysis, and optical instruments. The experiments in electricity include measurement of resistance, current, electromotive force, and capacity. *One period of three hours, with one and one-half hours preparation, weekly. Preparation, 31-2, or 31-32, simultaneously.*

First term. One and one-half term hours.

ASSISTANT PROFESSOR MARVIN, MR. POTE and MR. KNIGHT

31-31 Physics. Subjects the same as 31-1, but with one additional recitation per week. *One lecture and three recitations per week. Preparation, 29-20.*

Second Term. Four term hours.

ASSISTANT PROFESSOR MARVIN, MR. POTE and MR. KNIGHT

31-32 Physics. Subjects the same as 31-2, but with one additional recitation per week. *One lecture and three recitations per week. Preparation, 31-31.*

First term. Four term hours.

ASSITANT PROFESSOR MARVIN, MR. POTE and MR. KNIGHT

35 CHEMISTRY

35-1 General Inorganic Chemistry. An introductory course in theoretical and descriptive inorganic chemistry, with a thorough consideration of the simplest carbon compounds and principal technical processes. *Three periods a week, two lectures, one three hour laboratory period with conferences.*

First and second terms. Six term hours.

PROFESSOR DURKEE, MR. BAKER, DR. CHANDLER and MR. POULEUR

35-2 Qualitative Analysis for the detection of the metals, a course which includes the experimental development of schemes for the division of the metals into groups, the separation and detection of the metals in each group, — a study of all the chemical changes and analytical details, together with the correct analysis of six known solutions and thirteen unknown. *Two periods a week ; three hours each ; laboratory work and conference. Six lectures.*

First term. Two term hours.

PROFESSOR DURKEE, MR. BAKER and
ASSISTANTS

35-3 Qualitative Analysis, Advanced, dealing with methods to effect solution of solids, the detection of mineral and common organic acids, the complete analysis of inorganic solids, including mixtures of salts, minerals, alloys, and slags. Three known and thirteen unknown are required, and thorough study of the chemical changes and conditions involved in the analyses. *Two periods a week ; three hours each ; laboratory work and conference.*

Second term. Two term hours.

MR. BAKER and ASSISTANT

35-4 Quantitative Analysis. Theory and practice of gravimetric and volumetric analysis, including the determination of chlorine by the ordinary and Gooch crucible methods, iron and sulphur in ferrous ammonium sulphate, silica in a silicate, phosphorus in a phosphate, complete analysis of dolomite, and brass, preparation of strictly half-normal sodium hydroxide and hydrochloric acid solutions, the volumetric analyses of soda ash and oxalic acid, the analysis of iron ore by the dichromate and permanganate methods, determination of chromium in chromite, of antimony by the iodine method, and silver by the sulphocyanate method. *Three periods a week ; three hours each ; laboratory work and conference.*

First and second terms. Six term hours.

PROFESSOR DURKEE

35-5 Quantitative Analysis. Technical. Work varied somewhat to meet the needs of individual students. Course ordinarily comprises proximate analysis of coal, nitrogen in coal, by Kjeldahl's method, complete analysis of boiler scale, mineral and sanitary analysis of water, determination of copper in ores by iodine and cyanide methods, of zinc by ferro-cyanide method, complete analysis of Babbitt metal, determination of lead in ores and manganese, sulphur, phosphorus, silicon and carbon in iron and steel. *Three periods a week ; three hours each ; laboratory work and conference.*

First and second terms. Six term hours.

PROFESSOR DURKEE

35-7 Fire Assay. A course which deals with the theory and practice of sampling and assaying gold and silver ores. *Two periods a week ; three hours each ; laboratory work and conference.*

Second term. Two term hours.

PROFESSOR DURKEE and Mr. POULEUR

35-8 Metallurgy of Iron and Steel. Considered largely from the chemical side, and includes the study of ores, fluxes, fuels, furnaces, and the other mechanical devices used in the commercial production of pig iron, wrought iron, and steel, together with the solution theory of iron and steel, heat treatment of steel, and production of malleable cast iron. *Two periods a week ; one hour each ; lectures and recitations.*

Second term. Two term hours.

MR. BAKER

35-9 Technical Gas Analysis, by the Orsat, Elliot, and Hempel systems. *One period a week, of three hours.*

First term. One term hour.

PROFESSOR DURKEE and Mr. POULEUR

35-10 Organic Chemistry. This course consists of lectures, recitations, and laboratory work. It is intended to familiarize the student with the typical compounds of carbon and their more important derivatives. The work in the laboratory includes the preparation of certain of the more important substances referred to in the lectures, and the identification of certain classes of compounds. *Four periods a week ; three lectures ; one three-hour laboratory period.*

First and second terms. Eight term hours.

DR. CHANDLER and ASSISTANT

35-11 Theoretical Chemistry. The subject matter of this course consists largely of the principles usually included under the head of Physical Chemistry. The work in the laboratory consists of physical chemical measurements and experiments of a physical chemical nature. *Three periods a week, two lectures, one three-hour laboratory period.*

First and second terms. Six term hours.

DR. CHANDLER

35-17 Applied Chemistry. A course dealing with the most important applications of inorganic and organic chemistry to manufacturing purposes, such as the production of sulphuric acid, soda, illuminating gas, and sugar. *Three periods a week. Two lectures or recitations, and one three-hour laboratory period.*

First and second terms. Six term hours.

PROFESSOR DURKEE

35-20 Chemistry. Subjects the same as 35-1, but with one additional recitation per week. *Four periods a week, two lectures, one recitation, one three-hour laboratory period with conferences.*

First and second terms. Eight term hours.

PROFESSOR DURKEE, MR. BAKER, DR. CHANDLER and Mr. POULEUR

35-99 Chemical Engineering Thesis. The development of a Chemical Engineering problem by extended personal research. The head of the department has authority to substitute another engineering subject for the thesis.

Second term. Three to five term hours.

PROFESSOR DURKEE and DR. CHANDLER

41 CIVIL ENGINEERING

41-4 Surveying. The elements of surveying; practice in the field associated with note-taking; mathematics applied to computations of dimensions, areas, and volumes; graphics by plotting, and plan making. Textbook: Tracy's Plane Surveying. *Two periods a week; three hours each.*

First term. Two term hours.

PROFESSOR SANBORN and MR. BURDEN

41-12 Railroad Surveying. The greater part of the problems selected for this course are based on information secured by the student while engaged in the reconnoissance and preliminary survey of a short line of proposed railroad near the College. These problems consist of the more important ones that daily arise in the practice of the railroad engineer, and they comprise the determination and location of all simple and compound curves that might be required for the final location of any line; the accurate plotting of the survey notes by means of a system of co-ordinates; a preliminary estimate of the materials of construction required, and the completion of all drawings. Text books: Railroad Curves and Earthwork by Allen. *Three periods a week; three hours each. Preparation, 41-4.*

First term. Three term hours.

ASSISTANT PROFESSOR CONNER

41-13 Railroad Engineering. A thorough analysis, both theoretical and practical, of the transition spiral; the study of earthwork computations, use of the mass diagram, determining cost of overhaul, use and computation of the vertical curve, proper methods of attack in steam-shovel work, the design and estimate of trestle construction, of culverts and waterways, and a general treatment of methods employed in locating all structures of standard design that support the roadbed. A brief study is made of the analysis of labor costs, and of the general principles underlying the scientific management of materials and men. Textbooks: The Railway Transition Spiral, by Talbot; American Civil Engineering Pocketbook *Three periods a week; one hour each. Preparation, 41-12.*

Second term. Three term hours.

ASSISTANT PROFESSOR CONNER

41-14 Railroad Engineering. A recitation course comprising the study of tunnel design, roadbed construction, track materials and track work, frogs and switches, yard and terminal layouts, siding design and construction, signaling and interlocking, equipment and tools, and the general principles of railroad maintenance. Problems are given in the elementary economic principles involved in railroad upkeep, the treatment of ties, and the capitalized comparison of structures. The student may be required to develop a proposed siding both for the design and the actual staking. Textbooks: The American Civil Engineers' Pocketbook. *Three periods a week; one hour each. Preparation, 41-13. First term. Three term hours.*

ASSISTANT PROFESSOR CONNER

41-17 Railroad Engineering Economics. Lectures and recitations on the economic principles underlying the proper management of all engineering business associated with the location, development, management, and operation of a railroad. A general outline of the procedure in financing railroad ventures is given with the attendant principles involved in bonding and underwriting such projects, and their application is fully demonstrated by the solution of typical problems. Text book: *Economics of Railroad Construction*, by Webb. *Three periods a week; one hour each. Preparation, 41-14.*
Second term. Three term hours. ASSISTANT PROFESSOR CONNER

41-21 Highways. Tests of sand, clay, cements, mortars, and crushed stone. Study of requirements and specifications. Tests of tars, oils, and asphalts. Study of sources, manufacture and requirements. Inspection of a tar refinery and laboratory where commercial methods may be observed.

Field survey for highway location. Study of topography, and conditions affecting location, design of highway, grades, and sections. Field study of types of permanent pavements and maintenance with textbook assignments. Text book: *American Civil Engineers' Pocketbook*. *One recitation and one three-hour laboratory period per week. Preparation, 41-4.*
Second term. Two term hours. MR. BURDEN

41-31 Geodesy. The determination of a true meridian by star and solar observations, accurate measurement of a base line, of angles in a triangulation system, and the adjustment of observations by the method of least squares. *Two periods a week; three hours each. Preparation, 41-4.*
Second term. Two term hours. ASSISTANT PROFESSOR CONNER

41-40 Hydraulic Engineering. Experiments and observations on the flow of water through nozzles, weirs, pipes, canals and water turbines, together with the study of the associated theory of hydraulics and elementary water power engineering. Textbook: *Elements of Hydraulics*, by Slocum. *Three periods a week. Preparation, 29-3.*
First term; repeated in second term. Three term hours.

PROFESSOR SANBORN

41-41. Hydraulics. A course similar to 41-40 differing from it only in length. Specially planned for students in Mechanical and Electrical engineering. *Two periods a week; one hour each. Preparation, 29-21 and 29-22.*
Second term. Two term hours. PROFESSOR SANBORN

41-43 Hydraulic Measurements. Experiments on weirs, standard nozzles, proportional water meter, impulse water wheel, duplex pump, and centrifugal pump; river and canal gaugings by current meter. Tests of 100 horsepower turbine, 36-inch Venturi Meter, 40-inch riveted pipe,

and 10-foot weir. Textbook: Elements of Hydraulics, by Slocum. *Two periods a week ; three hours each. Preparation, 41-40.*

Second term. Two term hours.

PROFESSOR SANBORN

41-46 Water Supplies. The examination of water supplies, quality of water, communicable diseases, purification of water, water supplies, pipes, reservoirs, dams, pumping machinery. Textbook; American Civil Engineers' Pocketbook. *Three periods a week ; one hour each. Preparation, 41-40.*

First term. Three term hours.

PROFESSOR SANBORN

41-47 Water Power Engineering. Water shed areas, stream flow, hydraulics of water wheels and turbines, turbine testing, selection of turbine for given conditions, water-power development and value of privileges. Textbook: American Civil Engineers' Pocketbook and class notes. *Three periods a week ; one hour each. Preparation, 41-40.*

First term. Three term hours.

PROFESSOR SANBORN

41-48 Sewerage. Purification of sewage, design of sewers, forms of construction, modern methods of sewage and garbage disposal, principles of irrigation and drainage. Textbook: American Civil Engineers' Pocketbook. *Three periods a week ; two hours each. Preparation, 41-46.*

Second term. Three term hours.

PROFESSOR SANBORN

41-51 Fire Prevention. Fire streams, fire pumps, meters, pipe systems, including automatic sprinklers, watchman service, public fire departments, fire causes, and fire-proof and slow-burning construction. Recitation and design from field practice. *Two periods a week ; two hours each. Preparation, 41-40.*

Second term. Two term hours.

PROFESSOR SANBORN

41-63 Contracts. The essential elements of all contracts, their formation and modes of discharge, the fundamental principles of successful writing and interpretation of contracts for the erection of engineering works are carefully considered. Commercial contracts are also studied, including contracts of association, of sale, of transportation, and instruments of credit. The duties and legal responsibilities of the engineer as agent, business man, or independent contractor are emphasized, and some practice is had in writing engineering contracts and specifications. Textbook: Contracts in Engineering by Tucker, Elements of Specification Writing, by Kirby. *Three periods a week ; one hour each.*

Second term. Three term hours.

ASSISTANT PROFESSOR CONNER

41-95 Civil Engineering Topics. Presentation and discussion of engineering topics. Textbook: Proceedings of the American Society of Civil Engineers for the present year. *Two periods a week ; one hour each. Preparation, Junior Civil Engineering courses.*

First term. Two term hours.

PROFESSOR SANBORN

41-99 Civil Engineering Thesis. A special investigation by research, design, or experimentation. The head of the department has authority to substitute another engineering subject for the thesis.

Second term. Three to five term hours.

PROFESSOR SANBORN and ASSISTANT PROFESSOR CONNER

45 APPLIED MECHANICS

45-1 Applied Mechanics. A course in the strength of materials including the mechanics and design of beams, girders, columns and shafts. *Three periods a week ; recitations and lectures with numerous problems. Preparation, 29-4 and 45-21.*

First term. Three term hours.

PROFESSOR ROCKWELL and ASSISTANT PROFESSOR SMITH

45-2 Applied Mechanics. A course in graphic statics and stresses in simple structures, including also problems in kinetics, work and energy and friction. For students in civil and structural engineering. *Three periods a week ; recitations and lectures with problems. Preparation, 45-1.*

Second term. Three term hours.

ASSISTANT PROFESSOR SMITH

45-3 Structural Mechanics. A treatment of the mechanics of masonry and reinforced concrete structures, including the design of retaining walls, masonry arches, and foundations. *Three periods a week ; recitations and lectures with problems and designs. Preparation, 45-2 or 45-4.*

First term. Three term hours.

PROFESSOR ROCKWELL

45-4 Applied Mechanics. A course in the mechanics of motion, kinetics, work and energy, and friction, including some graphic statics and stresses in simple structures. For students in mechanical, electrical and chemical engineering. *Three periods a week ; recitations and lectures with problems. Preparation, 45-1.*

Second term. Three term hours.

PROFESSOR ROCKWELL

45-12 Applied Mechanics Laboratory. This course deals with the resistance of the materials of construction, and comprises the testing of cast iron, steel, wrought iron, timber, and concrete in tension, compression, and shear, and the determination of the elastic limits, ultimate strengths, and coefficients of elasticity of these materials. *One period a week ; two hours. Simultaneous with 45-1.*

First term. One term hour.

ASSISTANT PROFESSOR SMITH

45-21. Mechanics. An elementary course in the principles of statics, centres of gravity, moments of inertia and simple beams. *Three periods a week Preparation, 29-3.*

Second Term. Three term hours.

PROFESSOR ROCKWELL and ASSISTANT PROFESSOR SMITH

47 STRUCTURAL ENGINEERING

47-1 Roofs and Bridges. A study of the fundamental principles of Structural Engineering. It includes the theory of algebraic and graphical stress analysis for statically determinate structures, including roofs, bridges, towers, etc., and the design of structural members and details. *Three periods a week; lectures and recitations, with problems. Preparation, 45-2 or 45-4.*

First term. Three term hours.

PROFESSOR ROCKWELL

47-2 Theory of Structures. An advanced course in the theory and design of structures. The method of influence lines is used to a considerable extent in addition to the usual algebraic methods. *Three periods a week; lectures and recitations, with problems. Preparation, 47-1 and 45-3.*

Second term. Three term hours.

PROFESSOR ROCKWELL

47-3 Structural Design. An introductory course in the design of framed structures. It consists of (a) the critical examination of, and report on, some existing structure and (b) the design and detail drawings for a steel mill building. *Three periods a week; three hours each. Simultaneous with 45-2.*

Second term. Three term hours.

ASSISTANT PROFESSOR SMITH

47-7 Bridge Design. A course in the design of riveted and pin connected steel bridges. It consists of (a) one complete design of a typical bridge, including a critical study of the important details, carried on under the guidance of the instructor, and then (b) each student is given a different set of data from which he is required to make an independent design and general drawing. *Three periods a week; three hours each. Preparation, 47-3. Simultaneous with 47-1.*

First term. Three term hours.

ASSISTANT PROFESSOR SMITH

47-8 Structural Design. The design of masonry and reinforced concrete structures. *Two periods a week; three hours each. Preparation, 45-3.*

Second term. Two term hours.

PROFESSOR ROCKWELL

47-95 Structural Topics and Reports. Reports by each student on assigned reading in engineering literature, and on the stability and safety of structures, based on a personal examination by the student. The presentation is by lecture, but a written copy of each report must be left with the department. *Two periods a week; one hour each. Preparation, credit in required work of the Junior year.*

First term. Two term hours.

PROFESSOR ROCKWELL and ASSISTANT PROFESSOR SMITH

47-99 Structural Engineering Thesis. A single topic is developed by extended research, design, or experimentation.

Second term. Three to five term hours.

PROFESSOR ROCKWELL and ASSISTANT PROFESSOR SMITH

51 MECHANICAL ENGINEERING

51-1 Heat Engineering. This course deals with the generation of steam and its use in the steam engine. It comprises a study of modern types of boilers and their auxiliary apparatus, simple and compound engines, both condensing and non-condensing; a discussion of the elementary principles of thermodynamics and of the use of the indicator in steam engine practice. Some attention is given to the production of gas for power purposes and its use in the gas engine. *Three periods a week; one hour each. Preparation, 31-1, or 31-31, and simultaneous with 21-13.*

First term. Three term hours.

PROFESSOR CHASE

51-3 Heat Engineering. This course is devoted to the thermodynamics of the steam engine and other heat engines, and includes a study of the properties of steam, gas and air as used in steam engines, turbines, gas engines, air compressors and blowers; also the working fluids and saturated vapors used in refrigeration. The object of the course is to teach the principles, and their application to practical problems. *Three periods a week; one hour each. Preparation, 29-4 and 51-1.*

Second term. Three term hours.

PROFESSOR CHASE

51-7 Engine Design. The design of the steam turbine, steam engine and gas engine, involving the strength and proportion of parts and including the layout of the valve gear of high speed engines, the Corliss gear and locomotive valve gears. *Three periods a week; two hours each. Preparation, 51-3, and simultaneous with 51-15.*

First term. Three term hours.

PROFESSOR CHASE

51-8 Power Plant Design. A study of steam power plant equipment, including the selection of boilers and engines; pumps, heaters, condensers; arrangement of piping; chimneys, mechanical draft; mechanical stoking, coal handling. Boiler design, including calculations for one type of boiler. *Three periods a week; two hours each. Preparation, 51-7.*

Second term. Three term hours.

PROFESSOR CHASE

51-15 Dynamics of Machinery. A graphical and analytical consideration of the transmission of energy in machines and power transmission. The construction of inertia curves and crank effort diagrams applied to the solution of problems relating to fluctuations in speed, flywheels, balancing of moving parts and regulation by governors. *Three periods a week; one hour each. Preparation, 21-13 and 45-4.*

First term. Three term hours.

PROFESSOR CHASE

51-18 Machine Design. An application of the principles of mechanism and mechanics to the solution of definite problems in the design of representative types of machine. A systematic training of the judgment

is an important part of this course. *Three periods a week; three hours each. Preparation, 21-8, 21-13 and 45-4.*

First and second terms. Six term hours.

PROFESSOR ANTHONY and Mr. MACNAUGHTON

51-20 Heat Engineering. An elementary course dealing with fuels, combustion, generation of steam in modern power boilers, and its use in simple and compound engines and power plant auxiliaries; also the solution of problems in valve gears. *Two periods a week; one hour each, simultaneous with 21-13, and 31-2, or 31-32.*

First term. Two term hours.

PROFESSOR CHASE and Mr. MACNAUGHTON

51-21 Mechanical Engineering Laboratory. Efficiency of simple machines; screw threads; hoists, simple, duplex, triplex; transmission of power by belts. The determination of the clearance of engines; valve setting on plain slide valve, riding cutoff, and Corliss engines. Gage testing; the adjustment and use of indicators; testing indicator springs; the use of several types of steam calorimeters; injector test; flow of steam through orifices. The results of all laboratory work are submitted in the form of carefully written reports. *Two periods a week; three hours each. Preparation, 51-1.*

Second term. Two term hours.

Mr. MACNAUGHTON

51-24 Mechanical Laboratory. This course includes the work now listed under 51-21 with the addition of one hour per week for recitation and conference. *Two laboratory periods of three hours each, and one recitation per week. Preparation, 51-1 or 51-20.*

First term. Three term hours.

Mr. MACNAUGHTON

51-26 Mechanical Engineering Laboratory. Steam engines, pumps and auxiliary apparatus. Tests on riding cut-off shaft governor and Corliss engines; a $16 \times 8\frac{1}{2} \times 9$ duplex steam pump; measurement of water by weir, nozzle and meter; condenser tests; analysis of flue gases. Internal combustion engines. Tests on a 10 H.P. 4 cycle gas engine, 11 H.P. 2 cylinder, 2 cycle gasolene engine, automobile engines and marine type engines, including instruction and practice in their operation. *Three periods a week; three hours each. Preparation, 51-3 and 51-21.*

First term. Three term hours.

PROFESSOR CHASE, Mr. ADAMS and Mr. MACNAUGHTON

51-28 Mechanical Engineering Laboratory. Tests on a horizontal return tubular boiler; determination of the velocity of steam through ports; coefficients of friction with different oils and friction on different types of bearings; test on a 35-inch exhaust fan; tests on a steam turbine and on an air compressor; test at a 2000 K.W. power station, and

other tests which may be arranged. *Three periods a week ; three hours each. Preparation 51-26.*

Second term. Three term hours.

PROFESSOR CHASE and MR. MACNAUGHTON

51-95 Mechanical Engineering Topics. A course of lectures by students. Each member of the course chooses three topics from the proceedings of the American Society of Mechanical Engineers. The subjects are presented to the class in the form of lectures, followed by discussion and criticism. *Two periods a week. Preparation, Junior Mechanical Engineering courses.*

Second term. Two term hours. PROFESSORS ANTHONY and CHASE

51-99 Mechanical Engineering Thesis. An essay based on extended personal research, design, or experimentation. The head of the department has authority to substitute another engineering subject for the thesis.

Second term. Three to five term hours.

PROFESSORS ANTHONY AND CHASE

54 GEOLOGY

54-1 Physical Geology and Geography. Lectures, recitations, and field work. Mainly for those intending to teach. *Three periods a week ; one hour each ; and seven half-day excursions.*

Second term. Three term hours.

PROFESSOR LANE

54-5 Physical Geology.

First term. Three term hours.

PROFESSOR LANE

54-23. Economic Geology.

Second term. One term hour.

PROFESSOR LANE

54-24. Historical Geology.

Second term. Two term hours.

PROFESSOR LANE

61 ELECTRICAL ENGINEERING

61-3 Dynamo Electric Machinery. An elementary course dealing with the fundamental principles of dynamo electric machinery and their application in the construction and operation of generators and motors. Some attention is also given to storage batteries, arc and incandescent lamps and systems of direct-current distribution. *Three periods a week ; one hour each. Preparation, 61-20.*

First term. Three term hours.

ASSISTANT PROFESSOR MUNRO

61-5 Alternating Current Machinery. A course treating of the theory, construction, and operation of synchronous machinery. *Three periods a week ; one hour each. Preparation, 61-3.*

Second term. Three term hours.

ASSISTANT PROFESSOR MUNRO

61-8 Electrical Laboratory. Electrical measurements and testing, including, in addition to the more common measurements, calibration of instruments, study of arc and incandescent lamps, and direct current dynamos. *Three periods a week; three hours each. Preparation, 61-3.*

Second term. Three term hours.

ASSISTANT PROFESSORS ROLLINS and MUNRO

61-12 Dynamo Laboratory. Alternating current testing. *Three periods a week; three hours each. Preparation, 61-5.*

First term. Three term hours.

ASSISTANT PROFESSORS ROLLINS

61-14 Electricity. Theory of alternating currents and of alternating current machinery. *Three periods a week; one hour each. Preparation, 61-5.*

First and second terms. Six term hours.

ASSISTANT PROFESSOR BUSH

61-15 Electrical Engineering. A course dealing with the production, transmission, distribution, and utilization of electrical power. *Three recitations a week, with solution of assigned problems. Preparation, 61-5.*

First term. Three term hours.

PROFESSOR HOOPER

61-16 Electrical Engineering. A continuation of 61-15. *Three periods a week; one hour each. Preparation, 61-15.*

Second term. Three term hours.

PROFESSOR HOOPER

61-17 Telephone and Telegraph. A course on principles and operation of telephone and telegraph systems. *Three periods a week. Preparation, 61-20.*

First term. Three term hours.

ASSISTANT PROFESSOR ROLLINS

61-20 Electrical Engineering. An elementary course in the theory and practical applications of electrical engineering, dynamo-electric machinery, electrical instruments, electro-chemistry, electrical transmission of power, and electrical communication. Textbook, problems and written reports. *Preparation, 31-2, or 31-32.*

Second term. Three term hours.

PROFESSOR HOOPER

61-23 Dynamo Design. A course dealing with the application of the laws of electricity and magnetism to the calculations of electrical apparatus. *Three periods a week; two hours each. Preparation, 61-5.*

First term. Three term hours.

ASSISTANT PROFESSOR MUNRO

61-27 Radio-Engineering. An elementary course in wireless telegraphy and telephony. Lectures and laboratory work. As far as practicable the equipment of the American Radio & Research Corporation will be available for purposes of instruction. Open to Juniors and Seniors with approved preparation. *Three periods a week.*

Second term. Three term hours.

ASSISTANT PROFESSOR BUSH and Mr. POWER

61-96 Electrical Topics. Lectures by students on electrical subjects, followed by discussion and criticism. *Three periods a week. Preparation, 61-15.*

Second term. Two term hours.

ASSISTANT PROFESSOR ROLLINS

61-99 Thesis. An essay based on some construction, design, or investigation. The head of the department has authority to substitute another engineering subject for the thesis.

Second term. Three to five term hours.

PROFESSOR HOOPER, ASSISTANT PROFESSORS ROLLINS, MUNRO and BUSH

64 MINERALOGY

64-1 Mineralogy and Lithology. *Two recitations and four hours laboratory work a week. Preparation, 35-1.*

First term. Three term hours.

PROFESSOR LANE

64-1 Mineralogy alone is of use to civil and structural engineers, but those who are looking to mining or chemical engineering should also take 64-2.

[64-2 Crystallography and Advanced Mineralogy. *Two lectures and four hours laboratory work a week. Preparation, 64-1.*

Second term. Three term hours.

PROFESSOR LANE]

81 POLITICAL ECONOMY

81-2 Elements of Economics. Designed especially for students of engineering; aims at a comprehensive study of the elements of economics, with special reference to present day economic and social problems. Text book (Tausig, Principles of Economics), lectures, tests. *Three recitations a week.*

First and second terms. Six term hours.

PROFESSOR METCALF

81-5 Engineering Economics. Designed primarily to study the financial, legal, and operating elements of industrial organizations; the elements of appraisals and valuations; the study and use of the terms, amortization, depreciation, etc. This course is open to students in the Electrical, Mechanical and Chemical courses. Text books: Engineering Economics by Fish; Efficient Cost Keeping. *Three hours a week; lectures, tests, problems and reports.*

First term, three term hours.

ASSISTANT PROFESSOR CONNER

THE BROMFIELD-PEARSON SCHOOL

HERMON CAREY BUMPUS, PH.D., Sc.D., LL.D., President

GARDNER C. ANTHONY, A.M., Sc.D., Dean

The Bromfield-Pearson School

The Bromfield-Pearson School is intended to meet the wants of young men whose preparation for an Engineering course may be partially deficient in one or more of the required branches, but whose practice and experience in the applied part of Engineering may qualify them to pursue college work while making up these deficiencies. By this means an engineering education is made possible to those who may have been deprived of the opportunities for obtaining the necessary preparation, or who may have allowed considerable time to elapse between the high school and the college course. A mature mind, industrious habits, and appreciation of the value of an engineering education are essential.

ADMISSION REQUIREMENTS

Students intending to join the School must obtain from the Dean an application blank, which they are required to fill out and return. On receipt of this statement the Dean will give the conditions of entrance and the program of studies.

No student will be admitted to the School for more than one year.

Students admitted to college classes will be required to obtain a somewhat higher per cent. than the minimum requirement for engineering students.

On the satisfactory completion of one year of work students will be given a certificate of admission to the College. If they have maintained an approved grade in subjects required for the degree they will receive due credit.

The President and the Dean have final authority concerning admission, promotion, and discipline.

For other information address GARDNER C. ANTHONY, Dean of the Bromfield-Pearson School, Tufts College, Mass.

THE CRANE THEOLOGICAL SCHOOL

LEE SULLIVAN MCCOLLESTER, S.T.D., Dean

Standing Committees

COMMITTEE ON CURRICULUM: Dean McCollester, *Chairman*; Professors Cushman and Skinner.

COMMITTEE ON PROMOTIONS: Dean McCollester, *Chairman*; Professors Skinner and Mitchell.

Faculty of the Crane Theological School

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D., PRESIDENT

LEE S. MCCOLLESTER, S.T.D., DEAN

Packard Professor of Christian Theology

CHARLES H. LEONARD, A.M., S.T.D., LL.D., DEAN, EMERITUS

Goddard Professor of Homiletics and Pastoral Theology

WILLIAM H. REED, A.M., RECORDING SECRETARY †

Professors

HENRY I. CUSHMAN, A.M., D.D.

Homiletics

HINCKLEY G. MITCHELL, D.D.

Hebrew and Old Testament Exegesis

CLARENCE R. SKINNER, A.M.

Woodbridge Professor of Applied Christianity

Instructors

L. ALONZO BUTTERFIELD, PH.D.

Instructor in Oratory

Students in the Crane Theological School are also admitted to classes in the School of Liberal Arts.

NON-RESIDENT LECTURERS

FREDERICK A. BISBEE, D.D.

HAROLD MARSHALL

FREDERIC W. PERKINS, S.T.D.

LEVI M. POWERS, S.T.D.

CLARENCE E. RICE, S.T.D.

† *Ex officio*, as Recording Secretary of the Faculty of Arts and Sciences.

The Crane Theological School

The Relation of the School to Tufts College

In 1906 the name of the Divinity School was changed to the Crane Theological School, in recognition of a gift of one hundred thousand dollars from the estate of the late Thomas Crane of New York, whose son, Albert Crane, '63, thus carried out the expressed purpose of his father.

The Crane Theological School is one of the coördinate departments of Tufts College. Students of the School are members of the College, enjoying its privileges and subject to its regulations.

Outline of Courses

Recognizing that peculiar difficulties and radically new demands confront the Christian minister to-day, Crane Theological School frankly seeks to adapt its discipline to the new conditions. This, quite naturally, has led to the adoption of a distinct and somewhat distinctive ideal or aim. While rigorously faithful to the fundamentals of a liberal culture, and alert to discover and foster special interests and gifts, the primary aim is *practical* rather than *academic*—to turn out, not men distinguished for varied and curious learning, but men thoroughly equipped for moral and religious leadership.

Three courses are presented: one of three years, for students who have already received regular college degrees, leading to the degree of S.T.B.; one of five years, for students who have no degree but have had, or received at Tufts College, the essentials of the College course together with the theological course, leading to the degree of S.T.B.; and one of six years, combining the College and Theological Courses, leading to the two degrees of A.B. and S.T.B.

Students may also enter for special courses.

The number of hours required for the different degrees, and the arrangement of the work depend on the degree or degrees sought. The requirement for the combined course, leading to the two degrees of A.B. and S.T.B., is one hundred eighty-two hours. The subjects are taken from the following list.

Foreign Languages. Hebrew, Greek, Latin, German, French.

Science. Mathematics, Physics, Chemistry, Biology, Geology.

History. Ancient and Modern; Civil and Religious; Apostolic Church; Evolution of Religions.

Bible. Old Testament and New Testament Literature; Theology; Ethics; History; Criticism.

Philosophy. Logic; Ethics; Psychology; Theism: Systematic Theology; Types of Christian Faith.

Sociology. Economics; Applied Christianity; Missions; Social Laboratory; Jesus and Modern Society.

English. Rhetoric; Oratory; Literature; Homiletics; History of Preaching; Liturgics.

Religious Education. Religious Psychology; Religious Pedagogy; Sunday Schools; Pastoral Methods; Church Unity; Scientific Management.

Physical Education.

A student taking the six year course must complete the Foreign Languages and Science required for the Bachelor's Degree in the School of Liberal Arts and in addition he must take eighteen hours of History, twenty-one hours of Bible, twenty-one hours of Sociology, twenty-four hours of Philosophy, and thirty-six hours of English.

Courses of Instruction

In the following list of subjects, the department and name of the officer in charge are first given. Each department has its fixed number and each subject its symbol.—When subjects do not continue through the year, (F) means that they occur in the first term and (S) means that they occur in the second. Unless otherwise indicated, instruction in each subject is given three times each week and its credit is three term-hours per half-year. Subjects enclosed in brackets are not offered during the current year.

16 ETHICS AND PHILOSOPHY OF THEISM

PROFESSORS ——— and SCHMIDT

The details of these courses are to be found in the courses offered by the School of Liberal Arts.

[16-1. (F) Introduction to Philosophy.]

[16-3. (F) Logic.]

16-55. Psychology.

[16-15. Theism.]

56 HISTORY OF RELIGIONS

PROFESSOR SKINNER

56-4. Origin and Development of Primitive Religions; Ethnic Religions; Comparative Religions.

56-5. (F) History of the Christian Church to the Protestant Reformation: Development of Theology; Holy Roman Empire; Scholasticism.

56-6. (s) History of the Christian Church from the Reformation to the present time: The Reformation in Germany, Hungary, England, France, etc.; Puritanism; American Sects; Modern Religious Tendencies; Liberal Christianity.

[56-7. Special Investigations. A research course into Religious Literature; Archæology; Architecture. *Two term hours.*]

58 OLD TESTAMENT

PROFESSOR MITCHELL

58-3. The Hebrew Language. First Semester: the elements of Hebrew etymology, reading and writing in Hebrew. Second Semester: readings from the books of Judges and Samuel, with notes and references in Hebrew syntax.

58-6. (F) The Narrative Literature. A comparative study of the historical books to determine their relative value from the literary, historical, and religious standpoint. *Two term hours*

58-7. (s) The Prophetic Literature. An examination of selections from the works of the principal prophets, to ascertain the literary and doctrinal peculiarities of each, and its place in the development of Hebrew prophecy. *Two term hours.*

58-8. (s) The Didactic Literature. The books of Job, Proverbs, and Ecclesiastes, and their significance in the history of Hebrew thought. *Two term hours.*

58-9. (S) The Lyric Literature. Early songs; select psalms of devotional or theological importance; the Song of Solomon and its structure and meaning. *Two term hours.*

58-10. (F) The Ethics of the Old Testament. A survey of the development of moral ideas among the Hebrews, with lectures and papers. *One term hour.*

58-11. (S) Introduction to the Old Testament. An inquiry into the age, and structure, authorship, and history of the several books, with lectures and papers. *One term hour.*

68 NEW TESTAMENT

PROFESSORS MITCHELL AND MCCOLLESTER AND ASSISTANT
PROFESSOR WYATT

68-2. (S) New Testament Criticism: Textual and Historical.

[68-3. New Testament Exegesis and Theology: Doctrines of Jesus and Paul.]

[68-4. New Testament Greek.]

68-5. (S) Life and Teachings of Jesus.

68-11. (S) Life of Jesus: Beginnings of Christian Church.

76 APPLIED CHRISTIANITY

PROFESSOR SKINNER

76-7. (S) Social Psychology. A study of the self as a social product, an analysis of group and race characteristics, and of social conduct.

76-8. Principles and methods of Social Service, and of practical community leadership. The most important phases of social development are studied in their relation to economic and spiritual forces. Various welfare institutions are visited; brief comments are written upon each; students perform specific service under direction. *Two hours class work, one hour field work, per term.*

76-10. (S) Home and Foreign Missions. The aim is to make the student sympathetic with the motives and movements of missions and cognizant of methods. *One term hour.*

76-11. (F) Seminar in Country Church Problems. The country church and its ministry, in relation to rural development. *One term hour.*

76-12. Laboratory Social Work. A course in field investigation with an approved social agency, such as Settlements, Charity Organizations, etc. Assigned reading. Conferences with instructor. *Two term hours.*

[76-13. Race Problems. The history of immigration and an examination of its effects at home and abroad. Discussion of plans for Americanization.]

78 RELIGIOUS EDUCATION

PROFESSORS SKINNER and MCCOLLESTER

78-1. (F) Religious Pedagogy. Church, school methods, organization, curriculum, management, and efficiency are studied theoretically and are given practical demonstration. *Two term hours.*

78-2. (S) A course in practical Sunday School teaching. The student is acquainted with the materials and curricula of the graded system and uses them in actual teaching under the criticism and supervision of the instructor. *Two term hours.*

78-3. (F) Applied Religious Psychology. Various phases of normal and abnormal experience are studied and types of Christian character are analyzed. The validity of religious experience is emphasized.

78-4. (F) Pastoral Care. Clerical Life and its Problems, Universalist forms, ceremonies, and government, Art in relation to religious effectiveness. *Two term hours.*

82 HOMILETICS AND PASTORAL CARE

PROFESSORS CUSHMAN and MCCOLLESTER

82-1. Introductory Course in Homiletics. (a) Lectures and recitations on the basis of text book, Hoyt's "The Work of Preaching." (b) Sermon Making. Short extempore and written sermons on texts or topics chosen by students or assigned by the instructor. (c) Cultural study of the words and life of Christ as fundamental preparation for preaching. (d) Conferences.

82-2. Advanced course in Homiletics. (a) Lectures and recitations on the basis of text book, Hoyt's "The Preacher." (b) The art of preaching. Practice in the making of sermons, and in their delivery in class. (c) Pastoral Care. Studies in the conduct of Public Worship, and of special services on the basis of Dean Leonard's Book of Prayer. Baptism, Confirmation, the Holy Communion, Marriages and Funerals will be considered; also, Parish Calls and other pastoral functions with Gladden's "The Christian Pastor" as a book of reference. (d) Conferences.

86 THEOLOGY

PROFESSOR MCCOLLESTER

86-1. (S) Historical Introductions to the general subject of Theology.

[86-2. Systematic Theology: A survey of the general field of Theology; Modern Conclusions.]

86-3. Philosophy and History of Universalism: Unitarianism; Congregationalism; Liberal Leaders. Ballou, Channing, Farrar, Emerson. *Two hours.*

86-4. (F) Systematic Theology.

THE PROFESSION OF THE MINISTRY

Lectures are given by clergymen and educators at frequent intervals on ministerial habits, scientific management of parishes, case work, reading courses, church architecture, Universalist polity and interdenominational relations.

EXPENSES AND PECUNIARY AID

Tuition in the Crane Theological School is one hundred dollars per annum which gives a student a free room in Paige Hall. Students preparing for the Universalist ministry may obtain scholarships (covering tuition and room in Paige Hall) providing they maintain a high grade in their classes. Incidental expenses are not many and board may be obtained at moderate terms.

A registration fee is required of all students entering Tufts College for the first time.

The income from the following scholarships is available for theological students.

THE GREENWOOD SCHOLARSHIP.

\$1,000

Founded in 1877 by Mrs. Eliza M. Greenwood, of Malden. Given to that member of the advanced class in Homiletics who, maintaining a high standard of work as a student, has made in all the work in Homiletics and Oratory the most satisfactory progress.

THE DOCKSTADER SCHOLARSHIPS.

\$10,000

Founded in 1890 by George A. Dockstader, of New York. Appropriated to the aid of needy and worthy students.

- THE HENRY L. BALLOU SCHOLARSHIP. \$1,000
Founded in 1897 by Susan Ballou, of Woonsocket, R. I.
- THE BRADLEE SCHOLARSHIPS. (2) \$2,000
Founded in 1897 by Caleb D. Bradlee, D.D., of Brookline.
- THE GOLDTHWAITE SCHOLARSHIPS. (2) \$2,000
Founded in 1897 by Willard Goldthwaite, of Salem.
- THE HOLT SCHOLARSHIP. \$1,000
Founded in 1897 by Miss Celia Holt, of Stafford, Conn.
- THE WHITTEN SCHOLARSHIP. \$1,000
Founded in 1897 by Mrs. Maria F. Whitten, of Cambridge.
- THE SARAH ELIZABETH PERKINS SCHOLARSHIP. \$1,000
Founded in 1898 by James D. Perkins, of Brooklyn, N. Y.
- THE LUCIUS R. PAIGE SCHOLARSHIPS. (2) \$2,000
Founded in 1902 by Lucius R. Paige, D.D., of Cambridge, Mass.
- THE ANN M. PAIGE SCHOLARSHIPS. (2) \$2,000
Founded in 1903 by Ann M. Paige, wife of Rev. Lucius R. Paige, of Cambridge, Mass.
- THE JOHN MURRAY SPRAGUE AND ELIZA FLETCHER SPRAGUE SCHOLARSHIP. \$2,000
Founded in 1908 by John M. Sprague. Appropriated to the aid of needy and deserving students, preference being given to any student, otherwise eligible, who is a direct descendant of the donor's father, John Sprague.
- THE CATHERINE CONANT SCHOLARSHIPS. (4) \$5,000
Founded in 1910 by Mrs. Catherine Conant, of Newark, N. J.

The General Convention of Universalists aids students by loan scholarships, not exceeding one hundred and twenty-five dollars a year to any one student, subject always to the recommendation of the Faculty of the Theological School.

Students who are in the regular course are permitted to preach, under the direction of the Faculty, during the year-and-a-half preceding their graduation.

Students who have to pay their own way through school find many opportunities at Tufts to earn money—and expenses may be reduced to a low figure.

THE GRADUATE SCHOOL

CHARLES ERNEST FAY, A.M., LITT.D., Dean

Standing Committees

EXECUTIVE: President Bumpus, *Chairman*; Dean Fay and Professor Denison.

REQUIREMENTS FOR DEGREES: Dean Fay, *Chairman*; Professors Metcalf and Durkee.

Faculty of the Graduate School

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D., PRESIDENT

CHARLES E. FAY, A.M., LITT.D., DEAN

Wade Professor of Modern Languages

WILLIAM H. REED, A.M., RECORDING SECRETARY

Professors

Arranged in order of their service at Tufts College

WILLIAM L. HOOPER, A.M., PH.D., LL.D.

Electrical Engineering

FRANK W. DURKEE, A.M.

Chemistry

LEO R. LEWIS, A.M.

History and Theory of Music

FRANK G. WREN, A.M.

Walker Professor of Mathematics

WILLIAM K. DENISON, A.M.

Latin Language and Literature

*HENRY C. METCALF, PH.D.

Jackson Professor of Political Science

WILLIAM R. RANSOM, A.M.

Mathematics

ARTHUR I. ANDREWS, PH.D.

History and Public Law

KARL SCHMIDT, PH.D.

Philosophy and Education

LEE S. MCCOLLESTER, S.T.D.

Packard Professor of Christian Theology

HERBERT V. NEAL, PH.D.

Zoology

CHARLES H. GRAY, PH.D.

English

* Absent on leave.

The Graduate School

The Graduate School has control of all advanced work leading to the higher academic degrees.

The advanced elective work offered to undergraduates in any department of the Associated Schools is open to graduate students, and will count for the Master's degree. Graduate courses are arranged with the instructor in whose department the work is to be done, and must be approved by the Faculty of the Graduate School.

DEGREES

The degrees offered are Master of Arts and Master of Science. Departments open to candidates are:

ENGLISH	POLITICAL SCIENCE
MODERN LANGUAGES	MATHEMATICS
ANCIENT LANGUAGES	ELECTRICITY
PHILOSOPHY AND EDUCATION	BIOLOGY
HISTORY AND PUBLIC LAW	CHEMISTRY
MUSIC	

THE DEGREE OF MASTER OF ARTS will be conferred upon graduates of Tufts College who have received the degree of Bachelor of Arts, or upon graduates of other colleges whose course of study has been equivalent to that required at Tufts College for the degree of Bachelor of Arts, upon the following conditions:

1. They must have completed an approved course of advanced study, covering the equivalent of at least thirty term hours, in one or at the most two departments. If two departments are chosen they must be allied.
2. This course must be pursued during a residence of not less than one year. For graduates of Tufts College, the condition of residence may be waived by special permission, but the degree cannot then be taken with less than two years of graduate study.
3. The candidate must prepare a thesis in the form prescribed by the regulations, and must pass a satisfactory examination under the supervision of a board of three examiners, appointed by the Graduate Faculty at its stated meeting on the Friday following the last Monday in May. The thesis must be presented at least one month before Commencement.

4. No subject counted for the bachelor's degree will be counted for the master's degree.

5. Application for admission to the Graduate School should be made to the Dean in writing prior to September 20 of the college year in which the degree is to be conferred. If the degree is not taken after the first year of study, a second notice must be given at least three months prior to the Commencement at which the degree is expected. The application must specify the department or departments in which it is proposed to pursue work for a degree.

THE DEGREE OF MASTER OF SCIENCE will be conferred upon Bachelors of Science who have pursued advanced study at Tufts College for one year, under the conditions required of candidates for the degree of Master of Arts; or upon any Bachelor of Science of Tufts College who shall pursue graduate study *in absentia* for at least two years, or who, as an engineer, shall have continued his scientific researches with marked ability for at least three years, holding in the meantime a position of large responsibility. A thesis will be required.

SPECIFIC REQUIREMENTS IN THE SEVERAL DEPARTMENTS

[For a detailed description of the subjects indicated by their numbers in the following statements, see "Departments of Instruction" in the sections of this catalogue devoted to the School of Liberal Arts and (for Electricity) to the Engineering School.]

ENGLISH.—It is assumed that candidates for the degree of Master of Arts in English will have already laid a good foundation in English composition and the history of English and American literature. The amount of this work, in general, is that required of a "major student" in the department.—Unless already covered in undergraduate work, the subjects numbered 12-7, -10, -13 to -19, -23 to -25, -29, -34, and -36 may be counted toward the Master's degree, though a higher standard of attainment will be expected than from undergraduates. Part of the work, however, or even the entire work, may consist of a course of independent study of investigative order, under the direction of the department. This may take the form of a discussion of some question in literary history or criticism, or it may consist of an intensive study of an author or a period. A reading knowledge of German and French is usually necessary.

MODERN LANGUAGES.—A candidate for the Master's degree in this Department must have completed the equivalent of subjects 1 to 3 in both French and German (32 and 22) and 3B and 4 of the language in which the major part of the work is to be performed. The earlier part of the work for candidates who have not taken the more advanced courses is done with undergraduate classes. Of "elementary" subjects only Italian and Spanish may be taken. Graduate students registered in other departments are admitted to such modern language classes as their proficiency may warrant.

ANCIENT LANGUAGES.—A candidate for the Master's degree in Greek or Latin must have completed for Greek subjects 62-1, -2, -3, and -4 or -5; for Latin, 52-1, -2, -3 or -4, and -5. It is desirable that when the degree is sought in one of these languages the other should be taken as a collateral subject. Unless anticipated as undergraduate work, Greek 62-4, -5, -7, Latin 52-3, -4 -6, and Classical Archæology 28-1, to -8, may be counted towards the higher degree. Work will be done either in advanced classes with undergraduates or on special lines of investigation approved by the instructor. The thesis will embody the results of the investigation of some author or period, or of some philosophical or archæological subject. A reading knowledge of French and German is indispensable.

HISTORY AND PUBLIC LAW.—Before beginning graduate work in History and Public Law, the candidate must have completed History 36-1 and -2, and Public Law 46-1 or -2, or their equivalent. The advanced subjects enumerated in the catalogue, in so far as they are suited to individual needs, may be offered for the higher degrees, but it is expected that much of the candidate's work will consist of special studies pursued under the direction of the department and of an independent investigation of a definite subject, the results to be embodied in the required thesis. A working knowledge of French is essential, and of German is desirable.

POLITICAL SCIENCE.—When work is done in residence, the advanced courses, such as Business Organization and Management, Problems of Labor and Capital, Railroads, Finance, and Sociology, which have not been counted in undergraduate work, will be counted for the Master's degree. When residence is waived, the work will cover two years of research with stated conferences, the results to be embodied in the required thesis. A good reading knowledge of French and German is desirable, and may in certain lines of work be necessary.

PHILOSOPHY.—Some of the prerequisites for advanced work in Philosophy can be stated: a reading knowledge of French and German; Philosophy 16-1 and -2, or their equivalent, and one at least of the following three courses: 16-3, -8, -55, or their equivalent; others depend on the line of work chosen. For example, advanced work in Logic presupposes a knowledge of Mathematics and possibly of Physics. Special requirements will be stated to the student when the field of research is chosen.

MUSIC.—Graduate study in Music may follow one of three lines; Composition, History, or Criticism. The last-named includes advanced work in Musical Appreciation. In preparation for Composition the subjects numbered 38-9 and -10, or their equivalent, must have been completed, together with a year's work either in 38-25 or in the purely technical subjects. A reading knowledge of French and German is indispensable. The required thesis will consist in Composition: of a sonata or a work of similar scope; in History or Criticism, of a paper on an assigned topic.

MATHEMATICS.—Graduate students in Mathematics must have acquired a working knowledge of the calculus, and may offer as part of their work for the Master's degree any of the subjects given by the department except 14-21, -4, -5 and -6, but subjects -7, -9 and -10, or their equivalent, must be included. Candidates will hold themselves in readiness to be examined at the

end of their studies upon any topics treated in the four subjects noted as exceptions, as well as upon work offered for the degree.

CHEMISTRY.—Before beginning graduate work in Chemistry, subjects 35-1, -2 and -3, or their equivalent, must have been completed. Subjects -4 to -17 inclusive may be counted toward the Master's degree if they have not already been counted as a part of undergraduate work. A good reading knowledge of German is desirable, and in certain lines of work necessary.

BIOLOGY.—Before beginning graduate work in Biology, the student must have a good knowledge of the elements of plant and animal morphology and physiology and must have completed subjects 44-3 and -7, or their equivalent. A reading knowledge of scientific French and German is also necessary. The work offered for advanced degrees is in the line of plant and animal morphology.

ELECTRICITY.—As a preparation for graduate work in Electricity the candidate must have a good mathematical foundation, including a working knowledge of differential equations, and must have credit in Physics 31-1 and -7, or their equivalent. Of the thirty term hours required, nine may be used in the preparation of the required thesis.

EXPENSES

The tuition fee for the whole course for the degree of Master of Arts, or Master of Science, is *one hundred dollars*, payable in advance. A registration fee of five dollars is required of all students registering at Tufts College for the first time.

SCHOLARSHIPS

In each department offering graduate work the Trustees of Tufts College have established one scholarship which gives free tuition. The incumbent is expected to devote himself exclusively to advanced study.

These scholarships are awarded by the Graduate Faculty, on recommendation of the heads of departments concerned, and or before the beginning of the year in which they are to be conferred. Applications must be made to the Dean of the Graduate School.

ONE-YEAR PRE-MEDICAL COURSE

FRANK GEORGE WREN, A.M., Dean

Standing Committees

CURRICULUM: Dean Wren, *Chairman*; Professors Ashley, Bates, Bush, and Lambert.

PROMOTIONS: Dean Wren, *Chairman*; Professors Ashley, Bush, Lambert, and Seavey.

Calendar of the Pre-Medical Course

1917

- JAN. 3. Christmas recess ends, Wednesday evening.
FEB. 22. Washington's Birthday. Exercises are suspended.
APRIL 18. Spring recess begins, Wednesday evening.
APRIL 25. Spring recess ends, Wednesday evening.
MAY 30. Memorial Day. Exercises are suspended.
JUNE 10, 12, 13, 14, 15. Final examinations.
JUNE 18-23. Entrance examinations conducted by the College Entrance Examination Board.

Summer Vacation, Thirteen Weeks

- SEPT. 4. Registration begins.
SEPT. 6. Examinations for the removal of conditions.
SEPT. 13, 14, 15. Fall examinations.
SEPT. 27. Pre-Medical Course begins.
OCT. 12. Columbus Day. Exercises are suspended.
NOV. 29. Thanksgiving Day. Exercises are suspended.
DEC. 19. Christmas recess begins Wednesday evening.

1918

- JAN. 2. Christmas recess ends, Wednesday evening.

Faculty of the One-Year Pre-Medical Course

(The address is Tufts College, Mass., unless otherwise indicated.)

Administrative Officers

HERMON CAREY BUMPUS, Ph.D., Sc.D., LL.D. . . 8 Professors Row
PRESIDENT

FRANK GEORGE WREN, A.M. 65 Talbot Ave.
Dean of the Faculty of the School of Liberal Arts

Professors

RAYMOND HARMAN ASHLEY, B.S., A.M. Ph.D. . . 8 Ossipee Rd.,
Chemistry W. Somerville

GEORGE ANDREW BATES, M.Sc., D.M.D. Auburndale
Biology

VANNEVAR BUSH, M.S., ENG.D. 38 Dearborn St., Medford
Physics

FRED DAYTON LAMBERT, A.M., Ph.D. 120 Curtis St.
Biology

FRANK ELIAS SEAVEY, A.M. 45 Sawyer Ave.
English

Instructors

JAMES ANTHONY BRADLEY, A.B. 35 Pearl St., Medford
Chemistry

HAROUTIOUN HOVANS CHAKMAKJIAN, A.B. . . 5 Blossom St.,
Chemistry Arlington Heights

ERNEST FLAMMER, B.S. 40 Peterborough St., Boston
Physics

ARTHUR LEWIS GREELEY, A.B. 20 Wescott St., Dorchester
Chemistry and Physics

SHIRLEY WILCOX HARVEY, A.B. Dean Hall, 6
English

MELVILLE SMITH MUNRO, B.S. 101 Talbot Ave.
Physics

FRANCIS O'MEARA, M.S.	72	Mapleton St., Brighton
<i>Chemistry</i>		
FRANK WALTER POTE, B.S.	45	Dearborn St., Medford
<i>Physics</i>		
EDWARD EARLE SWAIN, A.M.		Box 3628, Boston
<i>French</i>		
GEORG VAN WIEREN		So. Framingham
<i>German</i>		

Assistants

CHESTER REED EARLE		Θ Δ X House
<i>English</i>		
MAHLON GILMAN KNOWLES		East Hall, 3
<i>English</i>		
LEWIS AARON TENTLER		Σ T A House
<i>English</i>		

For several years so-called medical preparatory courses have been given at the College. These are regular four-year courses leading to the bachelor's degree, and they will be continued, for the Trustees believe that a full college course is the best preparation for those who are to choose the profession of medicine.

There are, however, many students, young men and women, who cannot afford the time or the expense requisite for the attainment of a college degree. The One-Year *Pre-Medical Course herein described is designed to meet, in a practical way, the needs of this class, but it should be distinctly understood that the College will not look with favor upon those who comply merely with a minimum of the requirements for admission and yield a low grade of work during the year. The College expects earnestness and proficiency from all its students, and will add to the quantity and quality of the work herein described as it may feel is to the best interests of the student, the School, and the profession.

*Beginning with the year 1917-18 this course will be expanded so that two years will be required for its completion. A special announcement will be issued in March, 1917.

One-Year Pre-Medical Course

The Association of American Medical Colleges, of which Tufts College Medical School is a member, has voted that students may be admitted to medical schools of "Class A" under the following conditions:

(a) The student must have completed a four-year course in an accredited high school and

(b) He must have taken at least a year* of pre-medical work in an accredited college or university. This course must include Physics, Chemistry, Biology and either French or German.

The Trustees of Tufts College have arranged a One-Year Pre-Medical Course in accordance with this action of the Association of American Medical Colleges.

REQUIREMENTS FOR ADMISSION

Admission to the first-year class may be obtained in one of two ways:

(1) *By presenting a diploma and a transcript of record from an accredited high school or academy:*

The transcript of record must show adequate preparation in certain subjects falling in two groups, known respectively as the Required and the Elective Group. In these groups the term "unit" represents a year's study in the specified subjects and is the equivalent of approximately a quarter of a full year's work.

Required Group, 8 Units		Units
English		3
Foreign Language (elementary)		2
History		1
Algebra A1		1
Plane Geometry		1

No subject offered in the Required Group can be counted in the Elective Group.

*Two years after January 1, 1918.

In addition to the eight units of the Required Group candidates for admission must also present subjects chosen from the following Elective Group equivalent to six and one-half units.

The Elective Group, 6½ Units

	Units		Units
Greek	2 or 3	Freehand Drawing . . .	½*
Latin	2, 3, or 4	Shop Work	½ to 2*
French	2 or 3	Musical Appreciation . .	½
German	2 or 3	Music (Harmony)	½
Chemistry	1	Algebra A2	1
Physics	1	Advanced Algebra	½
Biology	1	Solid Geometry	½
Botany	1	Trigonometry	½
Zoology	1	English History	1
Geology or Geography .	1	Ancient History	1
Mechanical Drawing . .	*1	American History and Civil Government	1

(2) By passing examinations:

Students who desire to satisfy the above requirements may take the examinations either in June or in September, or a part in June and a part in September.

The June examinations, arranged by the College Entrance Examination Board, will be given June 18 to 23, 1917, at Robinson Hall, Tufts College, Mass., and elsewhere, as announced by the Board. All applications for June examinations must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N.Y., and the student intending to take the Board examinations should make his plans known to the Secretary at an early date, if possible prior to May 1, in order to comply with all of the conditions imposed by the Board.

The September examinations are arranged by Tufts College and will be given September 13 to 15, 1917, at Ballou Hall, Tufts College, Mass. On the day of their first examination applicants for the September examinations are required to register at the office of the Registrar at Tufts College and pay an examination fee of \$5.00.

* A total of not more than two units in three subjects.

The schedule of examination dates for September, 1917, is as follows:

- SEPT. 13. Elementary and Intermediate French, 9 to 11; Elementary and Intermediate German, 11 to 1; Elementary and Advanced Greek, Advanced Algebra and Trigonometry, 2 to 5.
- SEPT. 14. Algebra, 9 to 10.30; English, 10.30 to 12.30; Plane Geometry, 2 to 4; Physics, 4 to 5; Drawing, 4 to 6.
- SEPT. 15. Elementary, Intermediate, and Advanced Latin, 9 to 12; Solid Geometry, 9 to 11; Botany, Zoology, Biology, Geology and Economics, 11 to 1; History, 2 to 4; Chemistry, 4 to 5.

The requirements are well known to the principals of all secondary schools.

EXPENSES

A fee of five dollars is payable at the time of registration.

The tuition fee of *one hundred and twenty-five dollars* is payable on the opening day, and unless otherwise arranged must be paid in full before October 1.

If desired, however this amount may be paid in two instalments, in which case, an additional charge of five dollars is made and the fees are then paid as follows:

First payment, *seventy dollars*, payable on or prior to the opening day.

Second payment, *sixty dollars*, payable on or before February 1.

Laboratory and anatomical materials are supplied at cost.

APPLICATION AND REGISTRATION

A student who intends to enter the One-Year Pre-Medical Course must fill out and send to Frank G. Wren, Dean, 416 Huntington Avenue, Boston, Mass., the accompanying application blank. Duplicate application blanks will be mailed upon request.

Registration for the session 1917-18 will begin at the Medical School Building, 416 Huntington Avenue, Boston, Massachusetts, on Tuesday, September 4, 1917, at 9 A.M. Registration is conducted at the Medical School Building only.

The course begins on Thursday, September 27, 1917, and continues according to the calendar.

Departments of Instruction

BIOLOGY

The work in Biology is planned to meet the needs of students preparing to enter upon the study of Medicine. In the study of fundamental biological principles, illustrated by both plants and animals, particular stress is placed on the higher plants and on the vertebrates.

The laboratory work provides opportunity for the student to become acquainted with a series of plant and animal types, and its principal purpose is to train the student in scientific habits of observation and interpretation and to develop his powers of exact and independent thinking.

Four lectures and eight hours of laboratory work each week during the second half-year.

CHEMISTRY

This course consists of lectures, laboratory exercises and recitations. The usual college course is followed, and the subject developed in a logical manner with a standard textbook of college grade as a basis. The lectures are parallel with the laboratory exercises which strive to maintain the connection between theory and observed fact. The recitations afford opportunities for clearing up what may seem obscure, while the lectures are formal and accompanied by lecture-table demonstrations.

At an appropriate time, the subject of Qualitative Analysis is taken up by means of lecture and laboratory practice, the course being so shaped that the student should have no trouble in analyzing ordinary mixtures for metals and non-metals.

In the latter part of the college year the subject of Organic Chemistry is studied in order to prepare for physiological chemistry. This is done by means of lectures, laboratory exercises and recitations. The common volumetric operations of acidimetry, alkalimetry and determinations based upon reduction, observation and precipitation are studied and performed.

Three lectures, two recitations and seven hours of laboratory work each week throughout the year.

LANGUAGES

The courses in French and German are given in order to enable the student ultimately to acquaint himself with the literature of medicine and to read scientific publications in French and German. Elementary, intermediate and advanced subjects are offered in each department, so that the character of the work may be adapted to the qualifications of the individual student. Recitations are held three times each week. Grammatical principles are reviewed and literal translations with a clear understanding of the fundamental meaning of words are insisted upon.

The purpose of the English course is first, to impress on the student the importance of good English; second, to train in exact thinking; third, to develop the power of expression; and fourth, to encourage the habit of reading. The forms of discourse are taken up in weekly lectures, and errors are discussed at monthly conferences held with individual students. Papers written outside the class are required weekly, and papers written in class are required from time to time.

PHYSICS

This course consists of lectures, recitations, and laboratory work.

The subjects of mechanics, sound, heat, light, and electricity are covered. As much as possible of the mathematical part of physics is omitted; but special attention is given to topics peculiarly important to the student of medicine. Among these may be mentioned: capillarity, osmosis, diffusion, high frequency electric currents, X-rays, and radio-activity.

The laboratory work is intended to familiarize the student with simple physical apparatus, and the fundamental laws of physics. Written reports upon this work are required. The recitations are devoted to extending this study; and offer an opportunity for frequent short examinations. The lectures treat principally of extensions of the subject which cannot be conveniently studied in the laboratory.

The point of view of the medical student is kept prominently in mind throughout the course.

Two lectures, two recitations, and eight hours of laboratory work during the first half-year.

GRADUATION

Before a certificate of graduation can be given, students must fulfil the following requirements:

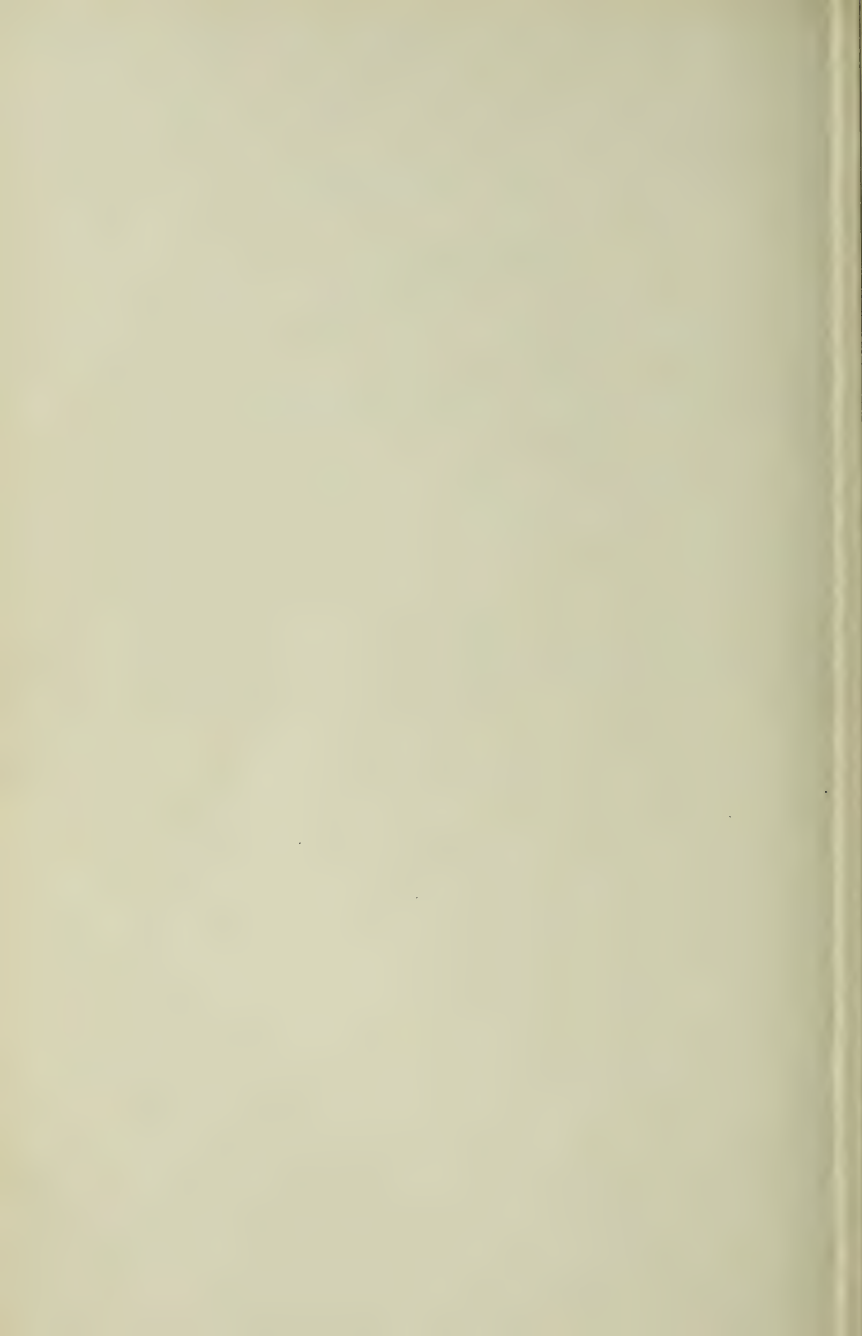
They must have paid all fees.

They must have passed all the required examinations, and have performed the required amount of laboratory work.

They must have completed the full course of pre-medical study.

The Faculty must be satisfied of the good moral character of the student.

The College reserves the right to accept and retain students as it may elect. Regulations are subject to change without notice.



Application for Admission
to the
Tufts College One-Year Pre-Medical Course

I hereby apply for enrollment in the Tufts College Pre-Medical Course

Name in full, including middle name.

.....

Date.....

P.O. Address; City or Town.....

State

Street and No.

Date of Birth

Place of Birth

Name of Parent or Guardian

Address of Parent or Guardian.....

For certificate as to my moral character consult

.....
(Name)

.....
(Address)

Previous education: (State *Name* of each secondary school and *Number*
of years attended.)

.....

.....

Total years..... Diploma was received: Date.....

I plan to register, in person, at the School Building.

Date:

This application must be accompanied by a certificate of graduation and a full statement of the applicant's secondary school record. These documents must be signed by the school principal.

Answer the above questions fully, clearly, and accurately, and forward to

FRANK G. WREN, Dean,

416 Huntington Ave., Boston, Mass.



PART II

THE MEDICAL AND DENTAL SCHOOLS

(Located in Boston)

TUFTS COLLEGE MEDICAL SCHOOL

(Giving the degree of M.D.)

TUFTS COLLEGE DENTAL SCHOOL

(Giving the degree of D.M.D.)

Calendar — 1917

JANUARY							MAY							SEPTEMBER							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
	1	2	3	4	5	6			1	2	3	4	5							1	
7	8	9	10	11	12	13	6	7	8	9	10	11	12	2	3	4	5	6	7	8	
14	15	16	17	18	19	20	13	14	15	16	17	18	19	9	10	11	12	13	14	15	
21	22	23	24	25	26	27	20	21	22	23	24	25	26	16	17	18	19	20	21	22	
28	29	30	31				27	28	29	30	31			23	24	25	26	27	28	29	
														30							
FEBRUARY							JUNE							OCTOBER							
					1	2	3						1	2		1	2	3	4	5	6
4	5	6	7	8	9	10	3	4	5	6	7	8	9	7	8	9	10	11	12	13	
11	12	13	14	15	16	17	10	11	12	13	14	15	16	14	15	16	17	18	19	20	
18	19	20	21	22	23	24	17	18	19	20	21	22	23	21	22	23	24	25	26	27	
25	26	27	28				24	25	26	27	28	29	30	28	29	30	31				
MARCH							JULY							NOVEMBER							
					1	2	3	1	2	3	4	5	6	7					1	2	3
4	5	6	7	8	9	10	8	9	10	11	12	13	14	4	5	6	7	8	9	10	
11	12	13	14	15	16	17	15	16	17	18	19	20	21	11	12	13	14	15	16	17	
18	19	20	21	22	23	24	22	23	24	25	26	27	28	18	19	20	21	22	23	24	
25	26	27	28	29	30	31	29	30	31					25	26	27	28	29	30		
APRIL							AUGUST							DECEMBER							
1	2	3	4	5	6	7				1	2	3	4							1	
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8	
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15	
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22	
29	30						26	27	28	29	30	31		23	24	25	26	27	28	29	
														30	31						

Calendar of the Medical and Dental Schools

1917

- JAN. 3. Christmas recess ends, Wednesday Evening.
FEB. 22. Washington's Birthday. Exercises are suspended.
APRIL 18. Spring Recess begins, Wednesday Evening.
APRIL 25. Spring Recess ends, Wednesday Evening.
MAY 30. Memorial Day. Exercises are suspended.
JUNE 17. Baccalaureate Sermon, Sunday, 4 P.M.
JUNE 20. Annual Commencement, Wednesday.
JUNE 18-23. Entrance examinations conducted by the College Entrance Examination Board. Application blanks may be obtained from the Secretary of the Board, 431 West 117th Street, New York, N. Y.

Summer Vacation, Thirteen Weeks

- SEPT. 4. Registration begins.
SEPT. 5. Examinations for Advanced Standing and for the Removal of Conditions.
SEPT. 13, 14, 15. Fall examinations for admission. These examinations will be given in Ballou Hall, Tufts College, Mass.
SEPT. 20. Opening Day. College year begins, Thursday.
SEPT. 20. Registration closes, 5 P.M. Thursday.
SEPT. 27. Pre-Medical Course begins. Thursday.
OCT. 12. Columbus Day. Exercises are suspended.
NOV. 29. Thanksgiving Day. Exercises are suspended.
DEC. 19. Christmas Recess begins, Wednesday Evening.

1918

- JAN. 2. Christmas Recess ends, Wednesday Evening.

Officers of Instruction and Government of The Medical and Dental Schools

The post-office address is Boston, Mass., unless otherwise indicated.

Administrative Officers

- HERMON CAREY BUMPUS, PH.D., Sc.D., LL.D.
PRESIDENT 8 Professors Row, Tufts College, Mass.
- CHARLES FAIRBANK PAINTER, A.B., M.D.
Dean 522 Commonwealth Ave.
- FRANK GEORGE WHEATLEY, A.M., M.D. . . . 174 Adams St.,
Vice-Dean N. Abington
- FRANK EUGENE HASKINS, PH.G., M.D. . . 204 Huntington Ave.
Secretary of the Faculty

Professors Emeriti

- FREDERIC MELANCTHON BRIGGS, A.B., M.D.
Surgery 536 Commonwealth Ave.
- HENRY BECKLES CHANDLER, C.M., M.D. . . . 34½ Beacon St.
Ophthalmology
- JOHN LEWIS HILDRETH, A.B., M.D., LL.D. . . 55 Fletcher St.,
Clinical Medicine Winchester
- MORTON PRINCE, A.B., M.D., LL.D. 458 Beacon St.
Neurology
- GEORGE HAMLIN WASHBURN, A.B., M.D. . 377 Marlborough St.
Obstetrics
- HAROLD WILLIAMS, A.B., M.D., LL.D. 528 Beacon St.
Theory and Practice of Medicine

Professors

- JOHN LINCOLN AMES, A.B., M.D. 87 Chestnut St.
Theory and Practice of Medicine
- ALFRED WILLIAM BALCH, PH.G., M.D. . 44 Linden St., Brookline
Biological Chemistry and Toxicology
- GEORGE ANDREW BATES, M.S., D.M.D. Auburndale
Histology

- WILLIAM ELISHA CHENERY, A.B., M.D. . . . 222 Huntington Ave.
Laryngology and Oral Surgery
- FRANK ALEXANDER DELABARRE, A.B., D.D.S., M.D.,
Orthodontia 520 Beacon St.
- ELWOOD TRACY EASTON, M.D. 209 Newbury St.
Ophthalmology
- WILLIAM ROBIE PATTEN EMERSON, A.B., M.D. 657 Boylston St.
Children's Diseases
- LEO VICTOR FRIEDMAN, A.B., M.D. 425 Marlborough St.
Obstetrics
- ERVIN ARTHUR JOHNSON, D.M.D. 541 Boylston St.
Clinical Dentistry
- GEORGE WARTON KAAH, M.D. 419 Boylston St.
Clinical Gynecology
- JAMES KELTIE, D.D.S. 419 Boylston St.
Crown and Bridge
- FRANK HOWARD LAHEY, M.D. 638 Beacon St.
Clinical Surgery
- EDWARD BINNEY LANE, A.B., M.D. 419 Boylston St.
Mental Diseases
- TIMOTHY LEARY, A.M., M.D. . . . 44 Burroughs St., Jamaica Plain
Pathology, Bacteriology and Medical Jurisprudence
- EDWARD NORTON LIBBY, A.B., M.D. 638 Beacon St.
Clinical Medicine
- EDWARD OSGOOD OTIS, A.B., M.D. 381 Beacon St.
Pulmonary Diseases and Climatology
- CHARLES FAIRBANK PAINTER, A.B., M.D. 522 Commonwealth Ave.
Orthopedic Surgery
- EDWARD MARWICK PLUMMER, M.D. . 5 Adams St., Charlestown
Otology
- WILLIAM RICE, D.M.D. 149 Newbury St.
Operative Dentistry
- ANDREW HOWARD RYAN, M.D. . . 7 Netherlands Rd., Brookline
Physiology
- BYRON HOWARD STROUT, D.D.S. Taunton
Operative Technics

- WALTER EDWARD SULLIVAN, A.M., PH.D. . . 11 Burnham St.,
Anatomy W. Somerville
- FRANK GEORGE WHEATLEY, A.M., M.D. . . . 174 Adams St.,
Pharmacology N. Abington
- CHARLES MELVILLE WHITNEY, M.D. . 386 Commonwealth Ave.
Genito-Urinary Diseases

Associate Professors

- GEORGE COOK AINSWORTH, D.D.S., D.M.D. . 220 Clarendon St.
Clinical Dentistry
- CHARLES HERVEY BAILEY, A.B., M.D. 855 Broadway,
Histology W. Somerville
- ARTHUR LAMBERT CHUTE, M.D. 350 Marlborough St.
Genito-Urinary Surgery
- WALTER ELMORE FERNALD, M.D. Waverley
Mental Diseases
- ALLEN GREENWOOD, M.D. 101 Newbury St.
Ophthalmology
- EDGAR MILLER HOLMES, M.D. 531 Beacon St.
Otology
- STEPHEN RUSHMORE, A.B., M.D. 520 Beacon St.
Gynecology

Assistant Professors

- RAYMOND HARMAN ASHLEY, M.A., M.S., PH.D. . . 8 Ossipee Rd.
Chemistry W. Somerville
- ARTHUR EVERETT AUSTIN, A.B., M.D. . . 110 Marlborough St
Clinical Medicine, Lecturer in Gastro-Intestinal Diseases
- ELMER WALTER BARRON, A.B., M.D. . . 520 Commonwealth Ave.
Children's Diseases
- GILMORE COLBY DICKEY, D.M.D. . . Upham's Corner, Dorchester
Crown and Bridge
- CURTIS WILLIAM FARRINGTON, D.M.D. . 246 Huntington Ave.
Clinical Dentistry
- WALTER EMERSON FARRIS, D.D.S. 711 Boylston St.
Prosthetic Dentistry
- WILLIAM MARTIN FLYNN, D.M.D. . . 474A Broadway, S. Boston
Clinical Dentistry

- ARIAL WELLINGTON GEORGE, M.D. 43 Bay State Rd.
Roentgenology
- HARRY AUGUSTUS GREENE, D.M.D. . . 689 Massachusetts Ave.,
Clinical Dentistry Cambridge
- FRANK EUGENE HASKINS, Ph.G., M.D. . . 204 Huntington Ave.
Pharmacology
- WILLIAM PRESTON HOUSTON D.M.D. . . 416 Huntington Ave.
Clinical Dentistry
- ARTHUR RONALD KIMPTON, M.D. 66 Bay State Road
Surgery
- CHARLES DAVISON KNOWLTON, M.D. . 574 Warren St., Roxbury
Theory and Practice of Medicine
- OLGA CUSHING LEARY, M.D. . . . 44 Burroughs St., Jamaica Plain
Pathology and Bacteriology
- FRANCIS PATRICK MCCARTHY, M.D. 394 Marlboro St.
Pathology and Bacteriology
- FRANCIS HENRY MCCRUDDEN, B.S., M.D.
Applied Therapeutics Robert Brigham Hospital
- WALTER FREEMAN NOLEN, M.D. 535 Beacon St.
Anatomy
- RICHARD HENRY NORTON, D.M.D. . . 61 Walnut St., Somerville
Operative Dentistry
- THOMAS JAMES O'BRIEN, Ph.G., M.D. 483 Beacon St.
Clinical Medicine
- ALONZO KINGMAN PAINE, M.D. 366 Commonwealth Ave.
Obstetrics
- CADIS PHIPPS, A.B., M.D. 421 Marlboro St.
Clinical Medicine
- HENRY HILDRETH PIPER, D.M.D. . . . 247 Pearl St., Somerville
Operative Dentistry
- LOUIS MAHLON SPEAR, A.B., M.D. 483 Beacon St.
Theory and Practice of Medicine
- ALBERT WARREN STEARNS, M.D. . . . 520 Commonwealth Ave.
Neurology
- FRANK PERCIVAL WILLIAMS, M.D. 419 Boylston St.
Surgery

Instructors

- LETITIA DOUGLAS ADAMS, M.D. 175 Dartmouth St.
Histology
- WALTER HENRY ARNOLD, D.M.D. 8 Beacon St.
Operative Dentistry
- HARRY JEROME BAKER, D.D.S. . . 471 Columbia Rd., Dorchester
Clinical Dentistry
- ROLAND AUGUSTUS BEHRMAN, M.D. . . . 147 Belgrade Ave.,
Histology and Physical Diagnosis Roslindale
- JAMES ANTHONY BRADLEY, A.B. 35 Pearl St., Medford
Chemistry
- AUSTIN BRANT, A.B., M.D. 483 Beacon St.
Obstetrics
- JOHN GEORGE BRESLIN, M.D. 514 Commonwealth Ave.
Surgery
- WALTER EMERSON BRIGGS, D.M.D. . . 35 So. Main St., Attleboro
Clinical Dentistry
- EVERETT MITCHELL BROWN, D.M.D. . . . 246 Huntington Ave.
Operative Technics
- EDWARD VALENTINE BULGER, D.M.D. 513 Broadway,
Operative Dentistry So. Boston
- ELMOND ARTHUR BURNHAM, A.B., M.D. . 154 Huntington Ave.
Clinical Medicine
- NEWELL BLY BURNS, A.B., M.D., . . No. Reading State Sanitorium
Pulmonary Diseases and Climatology N. Wilmington
- HAROUTIOUN HOVANES CHAKMAKJIAN, A.B. . 5 Blossom St.
Chemistry Arlington Heights
- HARRY CHARREN, D.M.D. 168 Cypress St., Providence, R. I.
Operative Dentistry
- HOWARD WARDWELL CHURCH, D.M.D. 471 Hope St.,
Clinical Dentistry Bristol, R. I.
- ALFRED VALENTINE COGAN, D.M.D. . . 651 Broadway, S. Boston
Crown and Bridge
- WILLIAM PEARCE COUES, M.D., 31 Massachusetts Ave.
Surgery
- ARTHUR HALLAM CROSBIE, A.B., M.D. . . . 260 Clarendon St.
Genito-Urinary Surgery

- JAMES HARLOW DALY, D.M.D. 276 Tremont St.
Operative Dentistry
- HAROLD WARD DANA, A.B., M.D. 483 Beacon St.
Clinical Medicine
- CHARLES BALFOUR DARLING, A.B., M.D. . . . 50 Townsend St.,
Clinical Gynecology Roxbury
- CHARLES HARVEY DAVIS, D.D.S. . 24 High St., Pawtucket, R. I.
Clinical Dentistry
- WILLIAM FRANCIS DOLAN, M.D. . . . 31 Forest St., Cambridge
Surgery
- FRANK HERBERT DUNBAR, M.D. . . . 52 Pleasant St., Mansfield
Pathology and Bacteriology
- JOHN EDWARD DWYER, JR., M.D. . . . 47 Inman St., Cambridge
Pathology and Bacteriology
- ARTHUR WELLINGTON EWING, D.M.D. 72 Irving St.,
Prosthetic Dentistry Framingham
- FREDERICK SEARS FAXON, D.M.D. . . . 231 Main St., Brockton
Operative Dentistry
- FREDERICK SAMUEL FOGG, D.M.D. 551 Boylston St.
Operative Dentistry
- CHARLES ROMANDEL GALE, D.M.D. 618 Washington St.,
Prosthetic Dentistry Dorchester
- HERBERT SEYMOUR GAY, M.D. 1087 Boylston St.
Clinical Gynecology
- ROBERT EMMET GETCHEL, D.M.D. . . . 29 Palmer St., Waltham
Operative Dentistry
- JOSEPH CORNELIUS GETHRO, D.M.D. . . . 848 Washington St.,
Clinical Dentistry Norwood
- LOUIS ADOLORE OLIVER GODDU, PH.G., M.D. . 407 Marlboro St.
Orthopedic Surgery
- NAPOLEON JOSEPH GOULET, D.M.D. . . 254 Main St., Marlboro
Clinical Dentistry
- FREDERICK EDWARD GRANT, D.M.D. . . Boyden Sq., E. Dedham
Clinical Dentistry
- WILLIAM HERBERT GRANT, M.D. 543 Boylston St.
Clinical Gynecology

- JOSEPH EDWARD HALLISEY, M.D. . 691 Columbia Rd., Dorchester
Clinical Medicine
- CHARLES ELLIOTT HATCH, D.M.D. 34 St. Stephen St.
Operative Dentistry and Operative Technics
- FRANCIS RANDOLPH HENDERSON, D.M.D. . . . 65 Clark St.,
Clinical Dentistry Everett
- JAMES JOSEPH HEPBURN, M.D. 536 Commonwealth Ave.
Anatomy and Surgery
- WILLIAM HAYES HOYT, D.M.D. . . 28 College Ave., W. Somerville
Operative Dentistry
- DELBERT LINS COTT JACKSON, B.S., M.D. 366 Commonwealth Ave.
Obstetrics
- ARTHUR PERCY JANES, M.D. 27 Hancock St.
Genito-Urinary Diseases
- FRANCIS JOSEPH KELEHER, A.M., M.D. 24 Tremont St., Brighton
Medical and Dental Jurisprudence
- BRADFORD KENT, M.D. 798 Blue Hill Ave., Dorchester
Pulmonary Diseases
- JOSEPH KING KNIGHT, D.M.D. 100 Boylston St.
Operative Dentistry
- THEODORE EDWARD LAFAYETTE, JR., D.M.D. . . 23 Main St.
Clinical Dentistry Watertown
- PEIRCE HENRY LEAVITT, S.B., M.D. . 8 Irving Terrace, Cambridge
Surgery
- CHARLES LEVERNE MACGRAY, M.D. . . . 1070 Great Plain Ave.,
Chemical Pathology and Toxicology Needham
- JOSEPH ALOYSIUS MANNING, A.B., D.M.D. . . . 520 Beacon St.
Clinical Dentistry
- FRANCIS PATRICK MCCARTHY, M.D. 394 Marlboro St.
Pathology and Bacteriology
- THOMAS ANTHONY McDONALD, D.M.D. . 501 Broadway, S. Boston
Operative Dentistry
- FREDERICK WILLIAM THOMAS MCKINNON, D.M.D.
Clinical Dentistry 543 Talbot Ave., Dorchester
- HAROLD GIFFORD METTERS, D.M.D. Bridgewater, Mass.
Clinical Dentistry

- ARTHUR LINCOLN MILES, D.M.D. . . . 12 Magazine St., Cambridge
Operative Dentistry
- ARTHUR LINWOOD MORSE, D.M.D. 520 Beacon St.
Orthodontia
- EDWIN JOHN MORSE, D.M.D. 541 Boylston St.
Prosthetic Dentistry and Oral Prophylaxis
- FRANCIS O'MEARA, M.S. 34 Mapleton St., Brighton
Chemistry
- ARTHUR CUSHING PEARCE, M.D. 543 Boylston St.
Genito-Urinary Diseases
- EDWIN WILLIAM PETERSON, D.M.D. 711 Boylston St.
Prosthetic Dentistry
- ABIJAH DAVENPORT PIERCE, D.M.D. 34 St. Stephen St.
Operative Dentistry and Assistant in Orthodontia
- JAMES RUFUS PIPER, D.M.D. 179 Newbury St.
Operative Dentistry
- EDWIN HEMPHILL PLACE, M.D. . . . South Dept., City Hospital
Clinical Medicine
- CHARLES MARDEN PROCTOR, D.M.D. 419 Boylston St.
Clinical Dentistry
- WILLIAM EDWARD REED, D.M.D. . . 2107 Mass. Ave., Cambridge
Prosthetic Dentistry
- FREDERICK REIS, M.D. 177 Norfolk St., Dorchester
Biological Chemistry and Toxicology
- CHARLES ALLEN RILEY, M.D. 1267 Commonwealth Ave.
Pulmonary Diseases
- HECTOR GEORGE RISEGARI-GAI, D.M.D. . . . 85 Pleasant St.,
Dorchester
Clinical Dentistry
- JACOB FREDERICK ROBERTS, D.M.D. . . . 9 Yale St., Medford
Clinical Dentistry
- MARK HOMER ROGERS, M.D. 483 Beacon St.
Orthopedic Surgery
- MAX ROSENTHAL, D.M.D. 2 Park Sq.
Operative Dentistry
- SOLOMON HYMAN RUBIN, M.D. . . . 582 Blue Hill Ave., Roxbury
Histology and Biology

- HARRY CLIFFORD RYDER, D.M.D. . . . 15 Warren St., Stoneham
Clinical Dentistry
- JOHN CHILTON SCAMMELL, A.B. . . . 91 Centre St., Dorchester
English
- HOLLIS LESTER SEAVEY, M.D. 1 Frost St., Cambridge
Clinical Medicine
- RUSSELL BRADFORD SPRAGUE, M.D. . 522 Commonwealth Ave.
Histology
- FREDERICK WINSLOW STETSON, A.B., M.D. . . 504 Warren St.
Clinical Medicine
- FREDERICK FINCH STRONG, M.D. 178 Huntington Ave.
Electro-Therapeutics
- ANNIE ELZINA TAFT, M.D. . . . 374 Hammond St., Chestnut Hill
Neuropathology
- WILLIAM CHARLES TANNEBRING, D.M.D. . . . 163 Cabot St.,
Clinical Dentistry Beverly
- LEILA MAY TAYLOR, D.M.D. 221 Essex St., Salem
Operative Dentistry
- TOWNSEND WILLIAM THORNDIKE, M.D. . . . 20 Newbury St.
Dermatology
- EDWARD ELIPHALET THORPE, M.D. 711 Boylston St.
Biological Chemistry and Toxicology
- EDWARD LAMBERT TWOMBLY, A.B., M.D. 416 Marlborough St.
Clinical Gynecology
- ROSS VROOM, D.M.D. 419 Boylston St.
Operative Dentistry
- HENRY FOWLER RANSFORD WATTS, M.D. . 6 Monadnock St.,
Theory and Practice of Medicine Dorchester
- LEON BARTLETT WILLEY, D.M.D. 254 Huntington Ave.
Clinical Dentistry
- NATHANIEL KNIGHT WOOD, M.D. 520 Beacon St.
Pulmonary Diseases and Climatology
- ANNE SKINNER WORTHEN, D.M.D. 739 Boylston St.
Operative Dentistry

Demonstrators

WILLIAM HENRY CANAVAN, D.M.D. . . 180 Shirley Ave., Revere
Operative Technics

WALTER HENRY GRANT, D.M.D. . . . 107 Massachusetts Ave.
Clinical Dentistry

JOHN DE NALCHAGIAN, D.M.D. 5 Nichols St., Chelsea
Clinical Dentistry

JAMES WILLIAM MARSDEN PARKS, D.M.D. . 46 Prichard Ave.,
Clinical Dentistry Somerville

RENE LUCIEN PETZOLDT, D.M.D. 64 West Newton St.
Clinical Dentistry

JOHN EMERY SCHOFIELD, D.M.D. . . 88 Church St., Whitinsville
Clinical Dentistry

JOSEPH WILLIAM SHAY, D.M.D. 238 Warren St., Roxbury
Clinical Dentistry

FRANK XAVIER WIDDOWSON, D.M.D. . . 478 Main St., Melrose
Clinical Dentistry

Assistants

FREDERICK CARROLL ALLEN D.M.D. 139 Newbury St.
Orthodontia

WILLISTON WRIGHT BARKER, A.B., M.D. . . . 4 Lyndhurst St.,
Children's Diseases Dorchester

MAURICE GEORGE BERLIN, M.D. 3 Esmond St., Dorchester
Clinical Medicine

HAROLD WALTER BROWN, D.M.D. . . 99 Chatham St., East Lynn
Operative Technics

ROBERT CARLYLE COCHRANE, B.S., M.D. . . . 96 Bay State Rd.
Surgery

DANA WARREN DRURY M.D. 407 Marlborough St.
Otology

JAMES J. DUDDY, D.M.D. 15 Cottage St., Brockton
Orthodontia

EDWARD KEITH ELLIS, M.D. 101 Newbury St.
Ophthalmology

SOMERS FRASER, A.B., M.D. E. Boston Relief Station
Surgery

- WILFRED GOLDWIN FUNNELL, M.D. . . . 156 Huntington Ave.
Pharmacology
- HAROLD GIRARD GIDDINGS, A.B., M.D. 90 Exeter St.
Surgery
- FRANK LUTHER GOODSPEED, D.M.D. . 23 Warren Ave., Whitman
Crown and Bridge
- JOHN HURTER GORDON, A.B. 11 Mason St., Cambridge
Physiology
- ANDREW DOHERTY GUTHRIE, M.D. . . . 407 Salem St., Medford
Pathology and Bacteriology
- DAVID ALOYSIUS HEFFERNAN, M.D. 69 Newbury St.
Laryngology
- JOSEPH GORDON HEGARTY, A.B., M.D. . E. Boston Relief Station
Surgery
- RICHARD HENRY HOUGHTON, M.D. . 308 Sumner St., E. Boston
Pulmonary Diseases
- FRANCIS THOMAS JANTZEN, A.B., M.D. . 514 Commonwealth Ave.
Surgery
- EDWARD JOSEPH KELLEY, M.D. 218 Main St., Watertown
Physical Diagnosis
- ALFRED EDWARD KING, M.D., C.M. . . 182 Main St., Watertown
Pathology and Bacteriology
- JOSEPH MICHAEL LYNCH, D.M.D. . . . 510 Commonwealth Ave.
Clinical Assistant in Department of Medicine
- RICHARD ALPHONSUS LYNCH, M.D. . 499 Broadway, So. Boston
Orthodontia
- ANGUS DANIEL MACLENNAN, M.D. 654 Tremont St.
Children's Diseases
- EDWARD MARTIN, M.D. 217 Warren St., Roxbury
Children's Diseases and Physical Diagnosis
- HAROLD WINTHROP MARTIN M.D. . . 2 Rockville Park, Roxbury
Physical Diagnosis
- HYMAN MORRISON, A.B., M.D. 103 Glenway St., Dorchester
Clinical Medicine
- WILLIS BURLEIGH PARSONS, D.M.D. . . 17 Avon St., Cliftondale
Crown and Bridge

- LOUIS EUSEBE PHANEUF, M.D. 514 Commonwealth Ave.
Gynecology
- HALE POWERS, B.S., M.D. 68 Davis Ave., Brookline
Neurology
- WILLIAM EMERSON PREBLE, A.B., M.D. . . 416 Marlborough St.
Clinical Medicine
- CATHERINE FRANCES RONAN, D.M.D. . . 114 Washington St.,
Prosthetic Dentistry Salem
- GEORGE HALE RYDER, M.D. 583 Beacon St.
Ophthalmology
- TIMOTHY JOSEPH SHANAHAN, A.B., M.D. . . 419 Boylston St.
Laryngology
- VICTOR ISAAH SHAPIRA, M.D. 160 Huntington Ave.
Genito-Urinary Diseases
- MARION CECELIA STEVENS, D.M.D. . . 37 Woburn St., Reading
Prosthetic Dentistry
- MAX STURNICK, M.D. 12 Columbia Rd., Dorchester
Children's Diseases
- EARLE EDWARD TILTON, M.D. 483 Beacon St.
Laryngology
- OLIVER GOLDSMITH TINKHAM, M.D. 527 Beacon St.
Surgery
- HENRY TOLMAN, JR. 543 Boylston St.
Laryngology
- GEORGE LOUIS VOGEL, M.D. 90 Exeter St.
Laryngology
- IRVING JACOB WALKER, A.B., M.D. 527 Beacon St.
Surgery and Assistant Demonstrator in Anatomy
- JOHN WILLIAM WATSON, A.M., M.D. 613 Beacon St.
Pathology and Bacteriology
- ROBERT MARSHALL WHITE, M.D. . . 276 Bowdoin St., Dorchester
Pulmonary Diseases and Climatology
- BRUCE McCLELLAN WOLFF, D.M.D. . . . 161 Allston St., Allston
Prosthetic Dentistry

Teaching Fellows

- GEORGE A. FELCH, M.D. 743 Tremont St.
Clinical Medicine
- GEORGE KLEIN 544 Warren St., Roxbury
Clinical Medicine

Lecturers

- LOUIS ARKIN, B.S., M.D. 366 Commonwealth Ave.
Laryngology
- EDWARD ALEXANDER INGHAM, B.S., C.P.H. . . 29 Carver Rd.
Hygiene Watertown
- FREDERICK HARRISON KNIGHT, PH.D. . 161 So. Huntington Ave.
Social Service
- HERBERT VINCENT NEAL, PH.D. . . 126 Packard Ave., Somerville
Comparative Anatomy
- FREDERICK FINCH STRONG, M.D. . . . 178 Huntington Ave.
Electro-Therapeutics

Registrar in Dental Clinic

- ALFRED MAHLON BIGELOW, M.D. . . . 50 Union St., Mansfield

Laboratory Assistants

Anatomy

- RAFE N. HATT West Paris, Me.
- PHILIP E. MELTZER, D.M.D. Roxbury
- JOHN HEHN MENGEL Frackville, Pa.

Comparative Anatomy

- KARL TRISTRAM PHILLIPS Amesbury
- CLIFFORD SCALES LANCEY Townsend

Physiology

- MAUD EVA HILLBERRY Blue River, Wis.

Store-Keeper

- GEORGE E. TOMLINSON 204 Huntington Ave.
- CHARLES E. MACKEY, Assistant 8 Atlantic St., So. Boston

Administrative Office

- GLADYS HILTZ 864 Huntington Ave.
Clerk in the Department of Clinical Dentistry
- MARY G. HURLEY 11 Auburn St., Roxbury
Stenographer
- MAY MILLER 14 Everett Ave., Dorchester
Clerical Assistant and Artist in the Department of Physiology
- SARAH E. MILLER 206 Massachusetts Ave.
Clerk in the Department of Prosthodontia
- MARY W. RICHARDSON 884 Huntington Ave.
Clerk in the Department of Clinical Dentistry
- ESTHER C. TATTAN 77 Belmont St., Somerville
Clerk in Crown and Bridge Department
- LILLIAN M. TATTAN 77 Belmont St., Somerville
Clerk to Secretary
- FRANCES WILDER 9 Maple St., Chelsea
Clerk in the Department of Operative Technics
- MARION VIOLA WILSON 17 Edgerton Rd., Arlington
Stenographer

Tufts College Medical and Dental Schools

The Tufts College Medical School was established in Boston in 1893 and the Dental School, formerly the Boston Dental College, became a part of Tufts College in 1899. Both are administered by the Trustees of Tufts College and are co-educational, women being admitted upon the same terms as men.

THE MEDICAL AND DENTAL BUILDING

416 Huntington Avenue, Boston, Mass.

The building—at which all exercises are conducted except those given to upper classmen at the hospitals—is equipped solely for the teaching of Medicine and Dentistry and courses connected therewith. There are seven lecture rooms. On the second, third, and fourth floors, extensive laboratories are provided which give excellent facilities for teaching. Private research laboratories are connected with each general laboratory.

The building may be reached by Huntington Avenue Subway cars, except those on the Roxbury and Dorchester lines.

CLINICAL FACILITIES

Boston, as the largest city in New England, offers unusual facilities to the student of medicine. The amphitheatres of the Boston City Hospital, the Massachusetts General Hospital, and the Massachusetts Charitable Eye and Ear Infirmary and other hospitals are open to students, and opportunity is thus afforded for witnessing a great variety of medical and surgical cases.

Clinics available to medical students are held at the institutions given in the following list, and opportunities are also offered at various private hospitals.

Boston City Hospital	818 Harrison Ave., Boston
Boston Consumptive Hospital O. P. D. . . .	13 Dillaway St., Boston
Boston Dispensary	Corner of Bennett and Ash Sts., Boston
Boston State Hospital (Psychopathic Dept.) .	74 Fenwood Rd., Boston
Carney Hospital	Old Harbor St., South Boston
Free Home for Consumptives	428 Quincy St., Dorchester
House of the Good Samaritan	Binney St., Boston
Mass. Charitable Eye and Ear Infirmary . . .	233 Charles St., Boston
Massachusetts General Hospital	Blossom St., Boston
Massachusetts School for Feeble-minded . . .	Waverley, Mass.
Mass. State Sanatorium for Treatment of Tuberculosis .	Rutland, Mass.
North Reading State Sanatorium	North Wilmington
Mt. Sinai Hospital	17 Staniford St., Boston
Robert Brigham Hospital	Parker Hill Ave., Boston
St. Elizabeth's Hospital	61 West Brookline St., Boston

The clinical advantages offered dental students are exceptional. In addition to the work in the School Infirmary, students are assigned to the dental clinics at the Boston Dispensary, the Hull House Dispensary, the City Institution at Deer Island, the Hood Rubber Co., Watertown, and the Forsyth Dental Infirmary for Children. In these institutions students receive practical instruction under the direction of officers of the School.

Further opportunities for instruction are furnished by the clinics and operations at the large hospitals of the city. Numerous operations upon the face and oral cavity are performed before students, and all connected with the School are urged to avail themselves of the facilities thus offered.

LIBRARIES

The students of this School have free access to the Medical School Library, to the Library of Tufts College, to the Boston Public Library, and to the Boston Medical Library.

The Boston Medical Library, which is situated near the School, has one of the largest and most complete collections of medical works in America. All the leading medical journals are on file. The reading rooms are open daily from October 1 to May 31, from 9.30 A.M. to 10.00 P.M., except Sundays and holidays. The hours on Saturdays are from 9.30 A.M. to 6 P.M.

EXPENSES

A fee of *five dollars* is paid at the time of registration and is non-returnable.

A tuition fee of *one hundred and fifty dollars* is payable on the opening day, and, unless otherwise arranged, must be paid in full before October 1.

If desired, the tuition may be paid in two instalments, in which case an additional charge of five dollars is made, and the fee is then paid as follows:

First payment:—*Eighty dollars*, payable on or before the opening day.

Second payment:—*Seventy-five dollars*, payable on or before January 15.

No student will be admitted to the exercises of the first half-year who has not first paid his registration fee and at least the "First Payment," and no student will be admitted to the exercises of the second half-year who has not paid his fees in full.

Before graduation students are charged two dollars to defray the cost of the diploma.

Students leaving the School have no claim for tuition paid.

The student is charged the cost price of anatomical material.

Students are charged five dollars for material regularly consumed in the chemical laboratory. In addition a deposit of two dollars, subject to adjustment, is required to cover the cost of breakage.

Students who have failed in a subject are required to pay a fee of five dollars for re-examination.

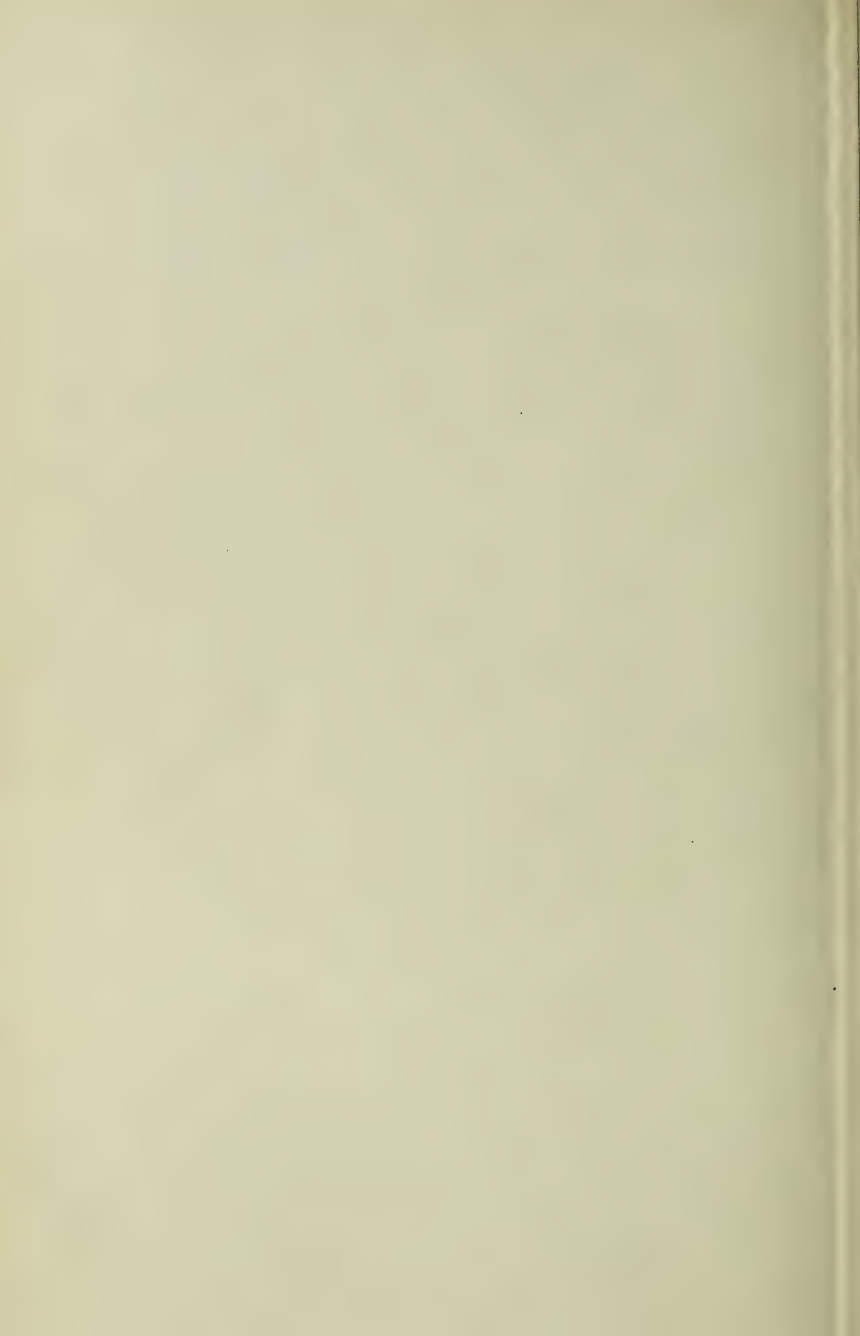
The expenses of living in Boston need not exceed those in small cities and villages. Good board, including room, heat, and light, may be obtained in the vicinity of the School at from \$5.50 to \$7 a week. Students will not be allowed to occupy rooms disapproved by the Faculty.

REGISTRATION

The registration period for the session 1917-18 will begin at the Medical-Dental Building, 416 Huntington Avenue, Boston, on Tuesday, September 4, 1917, at 9 A.M.; and must be made in person. Registration is conducted at the Medical-Dental Building only.

SESSIONS OF THE SCHOOL

The Medical and Dental school-year will begin on September 20, 1917, and will continue until Thursday, June 14, 1918. Intermissions and other details are given in the calendar.



MEDICAL SCHOOL

CHARLES FAIRBANK PAINTER, A.B., M.D., Dean
FRANK GEORGE WHEATLEY, A.M., M.D., Vice-Dean
FRANK EUGENE HASKINS, Ph.G., M.D., Secretary

Standing Committees

The Dean, Vice-Dean and the Secretary of the Medical School are members of all standing committees, *ex officiis*.

ADMINISTRATION.—The President, Drs. Wheatley, Lahey, and Leary.

COURSE OF INSTRUCTION.—The President, Drs. Ames, Lahey, Friedman, Wheatley, Chenery, and Bates.

WOMEN'S ADVISORY COMMITTEE.—Drs. Elizabeth A. Riley, Olga Cushing Leary, and Edna Weil Dreyfus.

The Faculty of the Medical School

Administrative Officers

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D.

PRESIDENT

CHARLES FAIRBANK PAINTER, A.B., M.D.

Dean

FRANK GEORGE WHEATLEY, A.M., M.D.

Vice-Dean

FRANK EUGENE HASKINS, PH.G., M.D.

Secretary of the Faculty

Professors Emeriti

FREDERIC MELANCTHON BRIGGS, A.B., M.D.

Surgery

HENRY BECKLES CHANDLER, C.M., M.D.

Ophthalmology

JOHN LEWIS HILDRETH, A.M., M.D., LL.D.

Clinical Medicine

MORTON PRINCE, A.B., M.D., LL.D.

Neurology

GEORGE HAMLIN WASHBURN, A.B., M.D.

Obstetrics

HAROLD WILLIAMS, A.B., M.D., LL.D.

Theory and Practice of Medicine

Professors

JOHN LINCOLN AMES, A.B., M.D.

Theory and Practice of Medicine

ALFRED WILLIAM BALCH, PH.G., M.D.

Biological Chemistry and Toxicology

GEORGE ANDREW BATES, M.Sc., D.M.D.

Histology

WILLIAM ELISHA CHENERY, M.D.

Laryngology

ELWOOD TRACY EASTON, M.D.

Ophthalmology

WILLIAM ROBIE PATTEN EMERSON, A.B., M.D.

Children's Diseases

LEO VICTOR FRIEDMAN, A.B., M.D.

Obstetrics

GEORGE WARTON KAAH, M.D.

Clinical Gynecology

FRANK HOWARD LAHEY, M.D.

Clinical Surgery

EDWARD BINNEY LANE, A.B., M.D.

Mental Diseases

TIMOTHY LEARY, A.M., M.D.

Pathology, Bacteriology and Medical Jurisprudence

EDWARD HORTON LIBBY, A.B., M.D.

Theory and Practice of Medicine

EDWARD OSGOOD OTIS, A.B., M.D.

Pulmonary Diseases and Climatology

CHARLES FAIRBANK PAINTER, A.B., M.D.

Orthopedic Surgery

EDWARD MARWICK PLUMMER, M.D.

Otology

ANDREW HOWARD RYAN, M.D.

Physiology

WALTER EDWARD SULLIVAN, Ph.D.

Anatomy

FRANK GEORGE WHEATLEY, A.M., M.D.

Materia Medica and Therapeutics

CHARLES MELVILLE WHITNEY, M.D.

Genito-Urinary Diseases

Associate Professors

CHARLES HERVEY BAILEY, A.B., M.D.

Histology

ARTHUR LAMBERT CHUTE, M.D.

Genito-Urinary Surgery

WALTER ELMORE FERNALD, M.D.

Mental Diseases

ELLEN GREENWOOD, M.D.

Ophthalmology

EDGAR MILLER HOLMES, M.D.

Otology

STEPHEN RUSHMORE, A.B., M.D.

Gynecology

Assistant Professors

ARTHUR EVERETT AUSTIN, A.B., M.D.

Clinical Medicine and Lecturer in Gastro-Intestinal Diseases.

ELMER WALTER BARRON, A.B., M.D.

Children's Diseases

ARIAL WELLINGTON GEORGE, M.D.

Roentgenology

FRANK EUGENE HASKINS, PH.G., M.D.

Materia Medica and Therapeutics

ARTHUR RONALD KIMPTON, M.D.

Surgery

CHARLES DAVISON KNOWLTON, M.D.

Theory and Practice of Medicine

OLGA CUSHING LEARY, M.D.

Pathology and Bacteriology

FRANCIS PATRICK MCCARTHY, M.D.

Pathology and Bacteriology

FRANCIS HENRY MCCRUDDEN, B.S., M.D.

Applied Therapeutics

THOMAS JAMES O'BRIEN, M.D.

Clinical Medicine

WALTER FREEMAN NOLEN, M.D.

Anatomy

ALONZO KINGMAN PAINE

Obstetrics

CADIS PHIPPS, A.B., M.D.

Clinical Medicine

LOUIS MAHLON SPEAR, A.B., M.D.

Theory and Practice of Medicine

ALBERT WARREN STEARNS, M.D.

Neurology

FRANK PERCIVAL WILLIAMS, M.D.

Surgery

The Medical School

REQUIREMENTS FOR ADMISSION TO COURSES LEADING TO THE DEGREE OF DOCTOR OF MEDICINE

The following requirements for admission to the Medical Courses are in accordance with the rules which, as adopted by the Association of American Medical Colleges, control admission to medical schools of "Class A."

Admission to the first-year class may be obtained in two ways. In either case the applicant should file the accompanying blank.

1. For Those Having Collegiate Degrees

The candidate for admission must present satisfactory evidence that he is a graduate of an accredited college or university and has received the bachelor's degree. He must have had courses in Physics, Biology, Chemistry, and a Modern Language, each sufficient in amount to be the equivalent of one year of work as given in approved colleges.

A student entering Tufts College as a freshman may combine his collegiate and medical school courses so that in seven years he can take both his bachelor's and his doctor's degrees.

Work for the first three years is pursued in the School of Liberal Arts, and for the remaining four in the Medical School. At the end of the fourth year the bachelor's degree may be conferred, and at the end of the seventh year the degree of Doctor of Medicine.

2. For Those Without Collegiate Degrees.

The candidate for admission in September, 1917, must present evidence that he has completed a Pre-Medical Course of at least one year's work in an accredited college or university, including Physics, Chemistry, Biology, and German or French courses.

The candidate for admission in September, 1918, must present evidence that he has completed a Pre-Medical Course of at least *two* year's work in an accredited college or university, including the courses above mentioned. Therefore those who intend to enter the Medical School in September, 1918, must have begun their Pre-Medical Course in or prior to September, 1916.

Information concerning the Pre-Medical Course given by Tufts College, and the conditions of entrance thereto, is given in this publication.

ADMISSION TO ADVANCED STANDING AND REMOVAL OF CONDITIONS

Students who have taken courses in other accredited medical schools may be admitted to advanced classes upon presenting satisfactory evidence, by credentials or by examination, that they are qualified.

Examinations to establish this qualification are given at the Medical-Dental Building, on a schedule arranged by the Secretary, and begin on Wednesday, September 5, 1917.

Students from other colleges intending to take examinations for admission to advanced standing and those who desire to remove conditions are required to notify the Secretary on or before Tuesday, September 4, 1917.

Before taking these examinations each student must register by signing his name on the registration blank provided for the purpose. If a student fails to register in this manner, he will receive no credit for his examination.

OUTLINE OF COURSES

First Year

First Semester

Descriptive Anatomy	<i>Twenty-two hours a week</i>
Histology	<i>Twelve hours a week</i>

Second Semester

Physiology	<i>Twenty hours a week</i>
Descriptive Anatomy	<i>Two hours a week</i>
Embryology	<i>Two hours a week</i>

Second Year

The following subject is given throughout the school-year:

Physical Diagnosis	<i>Two hours a week</i>
--------------------	-------------------------

First Semester

Pathology and Bacteriology	<i>Twenty-seven hours a week</i>
----------------------------	----------------------------------

Second Semester

Biological Chemistry	<i>Twenty-four hours a week</i>
Pharmacology	<i>Eight hours a week</i>
Bandaging and Surgical Technique	<i>Two hours a week</i>
Toxicology	<i>Two hours a week</i>

Application for Admission
to the
Tufts College Medical School

Date.....

I hereby apply for enrollment in the Tufts College Medical School as a candidate for the degree of M.D.

Name in full

P.O. Address: Street and No.

City or Town

State

Date of Birth

Place of Birth.....

Parent or Guardian

For certificate as to my moral character consult

.....
(Name)

.....
(Address)

Secondary Schools. (State *Name* and *Number* of years attended.)

Total years..... Diploma was received. Date.....

I plan to register, in person, at the Medical School
(Date)

(OVER)

**I. This section is to be used by those applying for admission
"On a Collegiate Degree."**

Name of College or University from which you have received your degree

Dates of Entrance and Graduation.....

Degree received

The applicant must attach a certificate of graduation, duly signed by an officer of the college from which he has graduated, stating that he has satisfactorily completed work in Chemistry, Physics, Biology, and French or German equivalent in amount to that given in the One-Year Pre-Medical Course at Tufts College, or as defined by the Association of American Medical Colleges.

**II. This section to be used by those who apply for admission
"Without Collegiate Degree."**

Name of College or University in which you have taken your Pre-Medical Course

Dates of beginning and ending Pre-Medical Course

The applicant must attach a letter of honorable dismissal and a transcript of record reciting the amount and quality of his work and his standing in the following subjects: Physics, Chemistry, Biology, and either French or German. This letter must be signed by an officer of an accredited college or university.

This application should be forwarded to

FRANK E. HASKINS, M.D., *Secretary*,
Tufts College Medical School,
416 Huntington Ave., Boston, Mass.

Third Year

The following subjects are given throughout the school-year:

Theory and Practice of Medicine	<i>Three hours a week</i>
Clinic	<i>Equivalent to three hours a week</i>
Surgery	<i>Six hours a week</i>
Clinic	<i>Equivalent to three hours a week</i>
Obstetrics	<i>Three hours a week</i>
Clinic (delivery of six cases)	<i>Equivalent to two hours a week</i>
Laryngology	<i>Two hours a week</i>
Clinic	<i>Equivalent to one hour a week</i>
Diseases of Children	<i>One hour a week</i>
Clinic	<i>Equivalent to one hour a week</i>
Medical Diagnosis	<i>One hour a week</i>
Clinic	<i>Equivalent to one hour a week</i>
Genito-Urinary Diseases	
Clinic	<i>Equivalent to one hour a week</i>
Ophthalmology	<i>One hour a week</i>

First Semester

Hygiene and Sanitation	<i>Two hours a week</i>
Neurology	<i>Two hours a week</i>
Pulmonary Diseases	
Clinic	<i>Equivalent to one hour a week</i>

Second Semester

Hematology	<i>One hour a week</i>
Pulmonary Diseases	<i>One hour a week</i>
Clinic	<i>Equivalent to two hours a week</i>
Gynecology	<i>Three hours a week</i>
Genito-Urinary Diseases	<i>One hour a week</i>
Ophthalmology	
Clinic	<i>Equivalent to one hour a week</i>

Fourth Year

The following subjects are given throughout the school-year:

Clinical Medicine	<i>Four hours a week</i>
Clinic	<i>Equivalent to one hour a week</i>
Clinical Surgery	<i>Five hours a week</i>
Clinic	<i>Equivalent to one hour a week</i>

Orthopedic Surgery	<i>Three hours a week</i>
Clinic	<i>Equivalent to one hour a week</i>
Applied Therapeutics	<i>One hour a week</i>
Clinic	<i>Equivalent to one hour a week</i>
Clinical Medicine	<i>Two hours a week</i>
Diseases of Children	<i>One hour a week</i>
Clinic	<i>Equivalent to one hour a week</i>
Medical Jurisprudence	<i>One hour a week</i>
Dermatology	<i>One hour a week</i>
Clinic	<i>Equivalent to one hour a week</i>
Operative Surgery and Surgical Anatomy—Demonstrations.	

First Semester

Neurology	<i>Two hours a week</i>
Clinic	<i>Equivalent to one hour a week</i>
Otology	<i>Three hours a week</i>
Clinic	<i>Equivalent to one hour a week</i>
Roentgenology	<i>One hour a week</i>

Second Semester

Operative Obstetrics—Demonstrations.	
Clinical Gynecology—Demonstrations.	
Mental Diseases	<i>One hour a week</i>
Clinic	<i>Equivalent to one hour a week</i>

Description of Four-Year Course of Study

(Leading to the Degree of Doctor of Medicine)

It is the plan of this course, which requires four years of residence, to correlate the classroom work of the first two years with the practical hospital experience of the third and fourth years, leading thus to a well-rounded medical and surgical training. The morning work of the fourth year is largely clinical, the students being assigned in sections for practical work in Hospital and Out-Patient Clinics.

ANATOMY

Dr. SULLIVAN

Dr. HEPBURN

Dr. NOLEN

The anatomical laboratory is equipped with charts, models and regional dissections for demonstrations. A departmental library is maintained for the students.

Descriptive Anatomy. This is a laboratory course on the cadaver. Each student dissects a lateral half of the body. Lectures, demonstrations and recitations supplement the laboratory work.

Applied Anatomy. It is planned to give a course which will correlate the descriptive anatomy with clinical work. This course will require ten hours per week for one half-year.

Statement of Expenses Incidental to Work in Anatomy

Dissecting material	\$15.00	Laboratory coat	\$1.25
Dissecting instruments	\$5.00-\$8.00	Text-books	\$7.00-\$15.00
Bone deposit	\$5.00		

HISTOLOGY

Dr. BATES

Dr. ADAMS

Dr. RUBIN

Dr. BAILEY

Dr. SPRAGUE

The course in Histology is carried on during the first semester of the first year. It consists of lectures and laboratory work in microscopic anatomy.

PHYSIOLOGY

Dr. RYAN

Instruction is based, as far as possible, on observations made in laboratory experiments and demonstrations. The experiments are selected to impress the student with the methods of investigation, and the most important facts in the various divisions of the subject, to wit: muscle, nerve, electro-physiology, circulation, body fluids, respiration, secretion, digestion, absorption, metabolism, nutrition, internal secretion, central nervous system, and the senses. Physiologic processes not readily observed in the laboratory, the student learns with an insight derived from the practical grounding in experimentation.

In the laboratory students work in groups of two or three, each group being provided with a desk completely equipped with apparatus and wired for electric power and chronometer current. Experiments requiring a greater number of students for their manipulation are carried out in groups of eight or nine. Experiments requiring special apparatus are performed in small sections, the work being arranged for rotation of the sections. For such experiments rooms are provided adjacent to the main laboratory. Each student is required to preserve a record of his experiments and observations.

The facts observed in the laboratory are discussed in lectures, quizzes and theses. In the lectures free use is made of charts, models and projection lantern. In the thesis prepared by the student on selected subjects, reference is made to original papers to be found in the library.

Weekly oral quizzes are supplemented by written tests given upon completion of some general division of the subject.

Text books: Stewart's Manual of Physiology; Howell's Text Book of Physiology; Starling's Human Physiology. For laboratory, mimeographed notes.

Elective work: To be arranged. For students desiring special training in this subject.

Research: The facilities of the department are given to properly qualified applicants.

EMBRYOLOGY

Dr. BATES

The course will cover the science so far as to fit the student with knowledge sufficient for his studies in obstetrics, and such other departments as may deal with embryonic conditions.

PATHOLOGY AND BACTERIOLOGY

Dr. LEARY

Dr. DUNBAR

Dr. DWYER

Dr. GUTHRIE

Dr. KING

Dr. MCCARTHY

Dr. OLGA CUSHING LEARY

Dr. WATSON

Miss FRITZ

Miss PEWS

The instruction in Pathology consists of lectures, recitations, and demonstrations of fresh and museum specimens, supplemented by experiments and practical laboratory work in pathological histology.

Instruction in autopsy technique is carried out in the amphitheatre of the school and the amphitheatre of the Southern District Mortuary. The supply of fresh material, both surgical and autopsy, is relatively large and it is usually possible to illustrate most of the common disease processes and many of the rare lesions.

Bacteriology is taught as a companion study to Pathology. As infectious processes are taken up, the bacterial causes are studied in connection with the pathology of the disease which they produce and demonstration is made of experimental lesions produced by the important pathogenic bacteria.

Immunology is taught by lectures, recitations and practical laboratory work.

BIOLOGICAL CHEMISTRY

Dr. BALCH

Dr. MACGRAY

Dr. REIS

Dr. THORPE

The course in Biological Chemistry begins with a study of the carbohydrates, proteins and fats. Then follows consideration of Chemical Physiology and Chemical Pathology of the human body.

Special attention is given to the chemistry and microscopy of urine, feces, blood and gastric contents. A large part of the laboratory work is devoted to these exercises.

Diagnosis of renal, gastric and intestinal diseases from chemical and microscopic findings is fully considered.

PHARMACOLOGY

Dr. F. G. WHEATLEY

Dr. CAINES Dr. FUNNELL Dr. HASKINS Dr. MCCRUDDEN

This course consists of lectures, recitations and laboratory exercises.

Special attention is given to the physiological action of drugs and to their therapeutical applications as indicated by clinical experience and by physiological and pathological conditions. The laboratory course is designed to familiarize the student with medicinal preparations. Prescription writing receives careful attention, and both the metric and apothecary systems are used. Recent additions in materia medica receive due consideration.

Applied Therapeutics. Fourth year students, in small sections, are given an opportunity to observe the results of the application of therapeutical agents.

TOXICOLOGY

Dr. BALCH

Dr. MACGRAY

Dr. REIS

Dr. THORPE

The course in Toxicology is systematic and comprehensive. Students are required to determine the identity of various organic and inorganic poisons in stomach contents, tissues and in food.

In addition to the regular recitations, there are occasional conferences at which cases of poisoning are discussed.

MEDICINE

Dr. AMES

Dr. AUSTIN

Dr. BARKER

Dr. BARRON

Dr. BEHRMAN

Dr. BERLIN

Dr. BURNHAM

Dr. BURNS

Dr. DANA

Dr. EMERSON

Dr. FERNALD

Dr. GEORGE

Dr. HALLISEY

Dr. HOUGHTON

Mr. INGHAM

Dr. KELEHER

Dr. KELLEY

Dr. KENT

Dr. KNIGHT

Dr. KNOWLTON

Dr. LANE

Dr. LIBBY

Dr. MACLENNAN

Dr. E. MARTIN

Dr. H. W. MARTIN

Dr. MORRISON

Dr. O'BRIEN

Dr. OTIS

Dr. PHIPPS

Dr. POWERS

Dr. PLACE

Dr. PREBLE

Dr. RILEY

Dr. SEAVEY

Dr. SPEAR

Dr. STEARNS

Dr. STETSON

Dr. STURNICK

Dr. TAFT

Dr. WATTS

Dr. WHITE

Dr. WOOD

The Department of Medicine receives the students in the second year, after they have completed courses in Anatomy, Physiology and Histology.

Physical Diagnosis. During the second year the students meet in small groups at the out-patient departments and in district visits, and are given instruction of a practical nature in "history taking" and "physical diagnosis." In this course only the minor medical disturbances are, as a rule, considered.

Theory and Practice of Medicine. The instruction consists of clinical lectures delivered to the entire class at the hospitals and in small sections at ward visits where diseased conditions are followed in their various stages.

Diseases of Children. This course is conducted by lectures given at the Medical School and at clinics given at the hospitals.

Medical Diagnosis. The students are shown the methods of clinical investigation, differential diagnosis and the gross pathological lesions.

Hematology. A laboratory course in the examining of the blood, involving practical work with the microscope.

Pulmonary Diseases. Pulmonary Diseases are considered as cognate parts of internal medicine and assigned their proper proportion of time for didactic and clinical instruction by the department.

Neurology. This course is conducted by Dr. John J. Thomas, whose lectures are followed by clinical work in the Boston City Hospital under the direction of Dr. Fairbanks and Dr. Coriat.

Hygiene and Sanitation. Hygiene and Sanitation are conducted during the first half of the third year.

Genito-Urinary Diseases. This course is given by Dr. Whitney and Dr. Chute. It consists of lectures supplemented by clinical work at the Boston Dispensary and Mt. Sinai Hospital.

Clinical Medicine. Clinical Medicine is continued in the fourth year in a practical manner by the appointment of students as clinical assistants in the out-patient departments and in the wards of hospitals.

Medical Jurisprudence. This course, which consists of a series of lectures, extends throughout the fourth year, and is given by Dr. F. J. Keleher.

Rectal Diseases. This course is given by Dr. Frank P. Williams. It is introduced by a series of lectures and is continued by clinical demonstrations at the Boston Dispensary.

Neuropathology. Dr. Tower gives a series of illustrated lectures on the pathology of the nervous system which is subsequently illustrated by cases at the Boston City Hospital.

Mental Diseases. The College has exceptional facilities for instruction in this subject. A course of lectures is given by Dr. E. B. Lane and clinical opportunities are available at several of the larger hospitals.

SURGERY

Dr. LAHEY

Dr. BRESLIN
Dr. COCHRANE
Dr. COUES
Dr. CHUTE
Dr. CROSBIE
Dr. DOLAN
Dr. FRASER
Dr. GIDDINGS

Dr. GODDU
Dr. HEGARTY
Dr. HEPBURN
Dr. JANES
Dr. JANTZEN
Dr. KIMPTON
Dr. LEAVITT
Dr. PAINTER

Dr. PEARCE
Dr. ROGERS
Dr. SHAPIRA
Dr. TINKHAM
Dr. WALKER
Dr. WHITNEY
Dr. WILLIAMS

Bandaging and Surgical Technique. The Department of Surgery first comes in contact with the students in the second year after they have had their descriptive Anatomy and Dissection, Physiology and Histology. In small sections at the several surgical out-patient departments, they are taught the principles of asepsis and antisepsis. At operations, they are taught something of the technique of minor surgery and receive practical instruction in the art of applying surgical dressings and in bandaging. Correlated with the second year of surgical instruction it is planned to give a course in Applied Anatomy.

Surgery. In the third year instruction by didactic and clinical lectures begins. The former are given at the Medical School and the latter at the hospitals. The clinical work is conducted chiefly by class demonstrations upon surgical patients and mainly with a view to diagnosis and treatment. This work is supplemented by ward visits in small groups where the results of treatment are demonstrated and post-operative care is illustrated. Correlated with this clinical instruction there is a laboratory course in Surgical Pathology in which the pathological changes of the principal surgical lesions are demonstrated and the repair processes incident to the recovery from surgical affections are followed.

Clinical Surgery. In the fourth year, clinical lectures are continued. Fifteen lectures on special surgical subjects are given by men not connected with the faculty but particularly qualified to speak on these subjects. Practical out-patient work is required of each student for a month in minor surgery, in **genito-urinary surgery** and in **orthopedics** respectively.

Operative Surgery and Surgical Anatomy. The course in operative surgery upon the cadaver is essentially a course in surgical anatomy and in practical operative surgery.

Opportunity to witness major surgical operations in the large hospitals is open to the students on public operating days.

GYNECOLOGY AND OBSTETRICS

Dr. KAAN	Dr. FRIEDMAN	Dr. RUSHMORE
Dr. BRANT	Dr. GRANT	Dr. PAINE
Dr. DARLING	Dr. JACKSON	Dr. PHANEUF
Dr. GAY	Dr. MACCORMACK	Dr. TWOMBLY

The work of the two departments is administered as a unit.

Gynecology. During the third year, second semester, there are three exercises (two lectures and one quiz) each week in Gynecology. The students in small sections, throughout the fourth year, are given instruction in the making of examinations, and in methods of diagnosis and treatment.

Obstetrics. The instruction in Obstetrics consists of lectures, recitations, and clinical teaching. Each student is given the opportunity to serve as externe in the Obstetric Out-Patient department, where he personally delivers the six cases required for the degree. He is required to care for these cases during convalescence and to write a detailed report.

For the women students, arrangements have been made with the New England Hospital for Women and Children whereby each student attends her required number of confinements.

Operative Obstetrics. All the important obstetric operations and operative manœuvres are demonstrated to the class in small sections, and each student performs these operations on models under the guidance of the instructor. This individual teaching constitutes a highly valuable and practical experience.

Clinical Gynecology. This instruction is give at the clinics of the Dispensary for Women, at the Boston Dispensary, and at St. Elizabeth's Hospital. Adequate provision is made for students to witness plastic operations and major pelvic surgery at the Carney Hospital. Weekly class conferences are held during the second semester.

OPHTHALMOLOGY

Dr. GREENWOOD

Dr. EASTON

Dr. ELLIS

The course in ophthalmology is of a practical character being designed to give the general practitioner such knowledge of the subject as is most essential to his practice.

OTOLOGY

Dr. PLUMMER

Dr. DRURY

Dr. HOLMES

Instruction in otology consists of lectures on the anatomy, physiology, and pathology of the ear, and the student must prepare a dissection and model of the human ear. The lectures are illustrated by models, anatomical specimens, bone-corrosion preparations, and by microscopical sections of the organ of hearing.

LARYNGOLOGY

Dr. CHENERY

Dr. ARKIN

Dr. TILTON

Dr. VOGEL

Dr. HEFFERNAN

Dr. TOLMAN, JR.

Third year students are given during the first semester a systematic course of lectures, illustrated by colored diagrams, models, pathological specimens and instruments.

Clinical laryngoscopy and rhinoscopy are required throughout the year. By practical examination the technique of instrumentation is taught as well as general diagnosis and treatment. The student is made familiar with ordinary diseases of the nose and throat and sees the more important operations.

DERMATOLOGY

Dr. KEANY

Dr. THORNDIKE

The instruction in dermatology consists of weekly lectures to the fourth-year students. Diseases of the skin are shown to the class at the Boston City Hospital. Opportunity is given for each student to examine the cases personally.

ROENTGENOLOGY

Dr. GEORGE

The School is well equipped with apparatus for making X-ray examinations. Lectures are given to the members of the fourth year class and students especially interested are given facilities of exceptional value at hospitals and private offices.

General Information

TERM EXAMINATIONS

Regular examinations for promotion and for graduation are held at the end of each course.

In all examinations (except those for entrance) each student must register by signing his name on the registration blank provided by the Secretary for that purpose.

At the end of each session a certificate of his standing for the year is sent by mail to each student. No marks will be sent or credit given to any student who is in arrears with the Bursar.

GRADUATION

Before the degree of Doctor of Medicine can be conferred, the candidates must fulfil the following requirements:

1. They must have paid all Medical School charges including the cost of diploma.
2. They must furnish a certificate that they are at least twenty-one years of age.
3. They must have passed all the required examinations, and have performed the required amount of laboratory and clinical work.
4. They must have attended for four college years some accredited medical college, the last of which must have been at this School as members of the fourth-year class.
5. They must be of good moral character.

HONORS

Students who have attended this School for three years, and have obtained an average of ninety per cent. in their first examinations, shall be eligible to "*summa cum laude*," and those who have obtained an average of eighty per cent. shall be eligible to "*cum laude*."

Students who have failed in any examination are not eligible for honors.

Degrees are publicly conferred on Commencement Day at Goddard Chapel, Tufts College.

The College reserves the right to accept and retain students as it may elect. Requirements and regulations are subject to change without notice.

DENTAL SCHOOL

CHARLES FAIRBANK PAINTER, A.B., M.D., Dean
FRANK GEORGE WHEATLEY, A.M., M.D., Vice-Dean
FRANK EUGENE HASKINS, PH.G., M.D., Secretary

Standing Committees

The Dean, Vice-Dean and the Secretary of the Dental School are members of all Committees, *ex officio*.

ADMINISTRATION.—The President, Drs. Bates, Johnson, Farris, Strout, Keltie, and Rice.

ADMISSION.—Drs. Leary, Bates, and Professor Wren.

LIBRARY.—Drs. Bates and Houston.

INSTRUCTION.—Drs. Johnson and Bates.

WOMEN'S ADVISORY COMMITTEE.—Drs. Elizabeth A. Riley, Olga Cushing Leary, and Edna Weil Dreyfus.

The Faculty of the Dental School

Administrative Officers

HERMON CAREY BUMPUS, PH.D., Sc.D., LL.D.

PRESIDENT

CHARLES FAIRBANK PAINTER, A.B., M.D.

Dean

FRANK GEORGE WHEATLEY, A.M., M.D.

Vice-Dean

FRANK EUGENE HASKINS, PH.G., M.D.

Secretary

Professors Emeriti

FREDERIC MELANCTHON BRIGGS, A.B., M.D.

Surgery

HAROLD WILLIAMS, A.B., M.D., LL.D.

Theory and Practice of Medicine

Professors

GEORGE ANDREW BATES, M.Sc., D.M.D.

Histology

WILLIAM ELISHA CHENERY, A.B., M.D.

Oral Surgery

FRANK ALEXANDER DELABARRE, A.B., D.D.S., M.D.

Orthodontia

ERVIN ARTHUR JOHNSON, D.M.D.

Clinical Dentistry

JAMES KELTIE, D.D.S.

Crown and Bridge

TIMOTHY LEARY, AM., M.D.

Pathology, Bacteriology and Medical Jurisprudence

WILLIAM RICE, D.M.D.

Operative Dentistry

ANDREW HOWARD RYAN, M.D.

Physiology

BYRON HOWARD STROUT, D.D.S.

Operative Technics

WALTER EDWARD SULLIVAN, Ph.D.

Anatomy

FRANK GEORGE WHEATLEY, A.M., M.D.

Pharmacology

Associate Professors

GEORGE COOK AINSWORTH, D.D.S., D.M.D.

Clinical Dentistry

Assistant Professors

RAYMOND HARMAN ASHLEY, M.A., M.S., Ph.D.

Chemistry

GILMORE COLBY DICKEY, D.M.D.

Crown and Bridge

CURTIS WILLIAM FARRINGTON, D.M.D.

Clinical Dentistry

WALTER EMERSON FARRIS, D.D.S.

Prosthetic Dentistry

WILLIAM MARTIN FLYNN, D.M.D.

Clinical Dentistry

ARIAL WELLINGTON GEORGE

Roentgenology

HARRY AUGUSTUS GREENE, D.M.D.

Clinical Dentistry

FRANK EUGENE HASKINS, Ph.G., M.D.

Pharmacology

WILLIAM PRESTON HOUSTON, D.M.D.

Clinical Dentistry

OLGA CUSHING LEARY, M.D.

Pathology and Bacteriology

FRANCIS PATRICK MCCARTHY, M.D.

Pathology and Bacteriology

WALTER FREEMAN NOLEN, M.D.

Anatomy

RICHARD HENRY NORTON, D.M.D.

Operative Dentistry

The Dental School

REQUIREMENTS FOR ADMISSION TO THE THREE-YEAR COURSE LEADING TO THE DEGREE OF DOCTOR OF DENTAL MEDICINE

The Tufts College Dental School is a member of the National Association of Dental Faculties, the National Association, of Dental Examiners, and the American Institute of Dental Teachers.

The National Association of Dental Faculties voted that beginning with the session of 1917-18, its constituent schools should increase their courses from three to four years.

Admission to the first-year class may be obtained in one of two ways:

(1) *By presenting a diploma and a transcript of record from an accredited high school or academy:*

The transcript of record must show adequate preparation in certain subjects falling in two groups, known respectively as the Required and the Elective Group. In these groups the term "unit" represents a year's study in the specified subjects and is the equivalent of approximately a quarter of a full year's work.

Elective Group, 8 Units		Units
English		3
Foreign Language (elementary)		2
History		1
Algebra A1		1
Plane Geometry		1

No subject offered in the Required Group can be counted in the Elective Group.

In addition to the eight units of the Required Group candidates for admission must also present subjects chosen from the following Elective Group equivalent to six and one-half units.

Application for Admission
to the
Tufts College Dental School

I hereby apply for enrollment in the Tufts College Dental School.

Name in full, including middle name.

.....

Date

P.O. Address; City or Town

State

Street and No.

Date of Birth

Place of Birth

Name of Parent or Guardian

Address of Parent or Guardian

For certificate as to my moral character consult

.....
(Name)

.....
(Address)

Previous education: (State *Name* of each secondary school and *Number*
of years attended.)

.....

.....

Total years..... Diploma was received: Date.....

I plan to register, in person, at the Dental School.

Date:

This application must be accompanied by a certificate of graduation and a full statement of the applicant's secondary school record. These documents must be signed by the school principal.

Answer the above questions fully, clearly, and accurately, and forward to

FRANK E. HASKENS, Dean,
416 Huntington Ave., Boston, Mass.

The Elective Group, $6\frac{1}{2}$ Units

	Units		Units
Greek	2 or 3	Freehand Drawing . . .	$\frac{1}{2}$ *
Latin	2, 3, or 4	Shop Work	$\frac{1}{2}$ to 2*
French	2 or 3	Musical Appreciation . .	$\frac{1}{2}$
German	2 or 3	Music (Harmony) . . .	$\frac{1}{2}$
Chemistry	1	Algebra A2	1
Physics	1	Advanced Algebra . . .	$\frac{1}{2}$
Biology	1	Solid Geometry	$\frac{1}{2}$
Botany	1	Trigonometry	$\frac{1}{2}$
Zoology	1	English History	1
Geology or Geography	1	Ancient History	1
Mechanical Drawing .	1*	American History and Civil Government . . .	1

(2) *By passing examinations:*

Students who desire to satisfy the above requirements may take the examinations either in June or in September, or a part in June and a part in September.

The June examinations, arranged by the College Entrance Examination Board, will be given June 18 to 23, 1917, at Robinson Hall, Tufts College, Mass., and elsewhere, as announced by the Board. All applications for June examinations must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street New York, N. Y., and the student intending to take the Board examinations should make his plans known to the Secretary at an early date, if possible prior to May 1, in order to comply with all of the conditions imposed by the Board.

The September examinations are arranged by Tufts College and will be given September 13 to 15, 1917, at Ballou Hall, Tufts College, Mass. On the day of their first examination applicants for the September examinations are required to register at the office of the Registrar at Tufts College and pay an examination fee of \$5.00.

* A total of not more than two units in three subjects.

The schedule for examination dates for September, 1917, is as follows:

- SEPT. 13. Elementary and Intermediate French, 9 to 11; Elementary and Intermediate German, 11 to 1; Elementary and Advanced Greek, Advanced Algebra and Trigonometry, 2 to 5.
- SEPT. 14. Algebra, 9 to 10.30; English, 10.30 to 12.30; Plane Geometry, 2 to 4; Physics, 4 to 5; Drawing, 4 to 6.
- SEPT. 15. Elementary, Intermediate, and Advanced Latin, 9 to 12, Solid Geometry, 9 to 11; Botany, Zoology, Biology, Geology and Economics, 11 to 1; History, 2 to 4; Chemistry, 4 to 5

The requirements are well-known to the principals of all secondary schools. A detailed statement of the requirements is given in the Appendix.

ADMISSION TO ADVANCED STANDING AND REMOVAL OF CONDITIONS

Students who have taken courses in other accredited dental schools may be admitted to advanced classes upon presenting satisfactory evidence by credentials or by examination that they are qualified.

Examinations to establish this qualification are given at the Medical-Dental Building, on a schedule arranged by the Secretary, and begin on September 5, 1917.

Students from other colleges intending to take examinations for admission to advanced standing and those who desire to remove conditions are required to notify the Secretary on or before Tuesday, September 4, 1917.

Before taking these examinations each student must register by signing his name on the registration blank provided for the purpose. If a student fails to register in this manner, he will receive no credit for his examination.

OUTLINE OF THE THREE-YEAR COURSE

First Year

First Semester

Operative Technics
Prosthetic Dentistry
Physiology
Oral Prophylaxis
Histology

*Nine hours a week
Nine hours a week
Nine hours a week
Two hours a week
Eight hours a week*

Second Semester

Anatomy	<i>Ten hours a week</i>
Operative Technics	<i>Nine hours a week</i>
Prosthetic Dentistry	<i>Nine hours a week</i>
Oral Prophylaxis	<i>Two hours a week</i>

Second Year*First Semester*

Clinical Dentistry (Forsyth Infirmary)	
Clinical Dentistry (Infirmary)	<i>Six hours a week</i>
Crown and Bridge (Lectures and Laboratory)	<i>Nine hours a week</i>
General Chemistry (Lectures and Laboratory)	<i>Eight hours a week</i>
Orthodontia (Lectures)	<i>One hour a week</i>
Pathology and Bacteriology (Lectures and Laboratory)	<i>Five hours a week</i>
Prosthetic Dentistry (Laboratory)	<i>Six hours a week</i>

Second Semester

Clinical Dentistry (Forsyth Infirmary)	
Pharmacology (Lectures)	<i>Eight hours a week</i>
Orthodontia (Lectures)	<i>One hour a week</i>
Operative Dentistry (Lectures)	<i>One hour a week</i>
Clinical Dentistry (Infirmary)	<i>Nine hours a week</i>
Dental Chemistry (Lectures and Laboratory)	<i>Three hours a week</i>
Dental Histology (Lectures and Laboratory)	<i>Three hours a week</i>
Prosthetic Dentistry (Laboratory)	<i>Three hours a week</i>

Third Year*First Semester*

Oral Surgery (Lectures)	<i>One hour a week</i>
Clinical Dentistry (Infirmary)	<i>Six hours a week</i>
Prosthetic Dentistry (Laboratory)	<i>Six hours a week</i>
Crown and Bridge Work (Lectures and Laboratory)	<i>Six hours a week</i>
Operative Dentistry (Lectures)	<i>One hour a week</i>
Hygiene (Lectures)	<i>Two hours a week</i>
Orthodontia (Lectures and clinic)	<i>Five hours a week</i>
Oral Prophylaxis (Lectures)	<i>Two hours a week</i>
Clinical Dentistry (Forsyth Infirmary)	<i>Equivalent to one hour a week</i>

Second Semester

Clinical Dentistry (Forsyth Infirmary)	<i>Equivalent to one hour a week</i>
Oral Surgery (Lectures)	<i>Two hours a week</i>
Clinical Dentistry (Infirmary)	<i>Six hours a week</i>
Dental Jurisprudence	<i>One hour a week</i>
Prosthetic Dentistry (Laboratory)	<i>Six hours a week</i>
Crown and Bridge Work (Lectures and Laboratory)	<i>Six hours a week</i>
Operative Dentistry (Lectures)	<i>One hour a week</i>
Orthodontia (Lectures and clinics)	<i>Five hours a week</i>
Oral Prophylaxis (Lectures)	<i>Two hours a week</i>

Description of Three-Year Course of Study

OPERATIVE TECHNICS *

Dr. STROUT

Dr. E. M. BROWN

Dr. H. W. BROWN

Dr. HATCH

Instruction in this course will be by lectures, illustrated by models and drawings, and by practical work on the part of the student. The student's work will include the study of the forms of teeth, with carving in ivory; study of the position and form of pulp chambers and canals, with dissection of teeth; proper methods of treating and filling pulp canals, with operations on extracted teeth; porcelain inlay work, with practical examples; also proper methods of forming cavities for filling, and the manipulation of all filling materials.

PROSTHETIC DENTISTRY †

Dr. FARRIS

Dr. EWING

Dr. GALE

Dr. E. J. MORSE

Dr. PETERSON

Dr. REED

Dr. RONAN

Dr. STEVENS

Dr. WOLFF

Particular attention is given to practical manipulation of vulcanite, celluloid, aluminum, and cast metal, for dentures; to gold-plate work, to preparation of plate for continuous gum and the application of continuous gum to crown and bridge work, as well as the construction of gold crowns and bridges. The natural form, color, and arrangement of the teeth, together with the entire range of procedure, from taking the impression to the completion of the case and its proper adjustment in the mouth, are thoroughly demonstrated.

* NOTE.—The operations in the technical departments require a very large number of natural teeth, and a sufficient supply is sometimes difficult to get. It will therefore be to the interest of students if they will bring with them all the extracted teeth they can obtain.

† It has been the custom of the authorities of this School to furnish to the inmates of certain institutions for the aged, etc., artificial teeth and appliances at the cost of materials. Institutions desiring to avail themselves of this privilege should apply to the Department of Prosthetic Dentistry, Tufts College Dental School, Boston, Mass.

PHYSIOLOGY

Dr. RYAN

The course consists of lectures, laboratory work, demonstrations and quizzes. In the laboratory and demonstrations the student learns the methods with which the facts of physiology have been obtained as well as obtaining certain of these facts first hand. In the lectures the subject is treated systematically, the lectures being correlated with the laboratory work. Special emphasis is placed upon those aspects of human physiology having immediate practical interest from the standpoint of dentistry.

ORAL HYGIENE

This course includes a series of lectures and practical demonstrations in Oral Prophylaxis during the entire Freshman year. Abundant material for practical demonstrations is always obtainable for the clinical department.

HISTOLOGY

Dr. BATES

Dr. RUBIN

Dr. SPRAGUE

The subject of histology covers the first half of the first year. The work during the first half of the allotted time will be identical with that of the students in the Medical School. This part of the subject covers the study of the elementary tissues, beginning with their origin in the embryo.

Dental Histology. Dental Histology will be taught during the second year. In this connection particular attention will be given to the study of the minute anatomy of the tooth. The development of the teeth will also receive careful treatment.

The department is equipped with microscopes which, on the payment of a small fee, will be at the service of such as cannot furnish instruments of their own.

ANATOMY

Dr. SULLIVAN

Dr. NOLEN

Dr. HEPBURN

The course in anatomy is given during the second half of the first year. It consists of lectures recitations and of special demonstrations on the cadaver. In addition, during the first four weeks of the course six hours a week are devoted to section work in Osteology.

CLINICAL DENTISTRY

Dr. JOHNSON

Dr. AINSWORTH

Dr. FARRINGTON

Dr. GREENE

Dr. HOUSTON

Dr. RICE

Dr. BAKER

Dr. HENDERSON

Dr. PETZOLDT

Dr. BRIGGS

Dr. LAFAYETTE

Dr. PEIRCE

Dr. CHARREN

Dr. MAGUIRE

Dr. PIPER

Dr. CHURCH

Dr. MANNING

Dr. RISEGARI-GAI

Dr. C. H. DAVIS

Dr. MCKINNON

Dr. RYDER

Dr. FLYNN

Dr. METTERS

Dr. SCOFIELD

Dr. GETCHEL

Dr. E. J. MORSE

Dr. SHAY

Dr. GETHRO

Dr. NALCHAJIAN

Dr. TANNEBRING

Dr. GOULET

Dr. NORTON

Dr. WIDDOWSON

Dr. F. E. GRANT

Dr. PARKS

Dr. WILLEY

Dr. W. H. GRANT

The method of instruction in clinical dentistry is by clinical lectures to the students of each class, accompanied by practical demonstration of various operations on the teeth and neighboring tissues.

Ample opportunity for work in practical operative dentistry is furnished in this department, and the student by actual practice receives training in the various dental operations, and in the diagnosis and treatment of diseased conditions of the mouth and teeth.

For many years it has been the custom of the authorities of this School to furnish to certain charitable and penal institutions qualified dentists for the purpose of alleviating cases of actual suffering. Applications for an extension of this service should be made to the head of the Department of Clinical Dentistry, Tufts College Dental School, Boston, Mass.

CROWN AND BRIDGE

Dr. KELTIE

Dr. COGAN

Dr. GOODSPEED

Dr. DICKEY

Dr. PARSONS

This department is situated on the third floor of the building in a large room equipped with twenty-one chairs, casting machines, electric motors, electric furnaces for porcelain, compressed air and a general work bench, fitted for stoves, blow pipes and bunsen burners. The junior laboratory is equipped to accommodate two hundred and fifty students where the Juniors make their specimen cases under a corps of instructors.

In this course the student is prepared by a series of lectures covering all branches of Crown and Bridge work, and is then taken directly into the laboratory where he is obliged to make suitable specimens on an anatomically articulated model.

The specimen work is all done during the Junior year, and prepares the student for the practical work of the Senior year.

In the Senior year the student is afforded ample opportunity for practical work from diagnosis to the completion of cases of all kinds.

GENERAL CHEMISTRY

Dr. ASHLEY

Mr. BRADLEY

Mr. CHAKMAKJIAN

Mr. O'MEARA

The course in General Chemistry consists of descriptive chemistry and qualitative analysis, with so much of theoretical chemistry as is necessary for a proper understanding of the subject.

The classification of the carbon compounds is also taken up at considerable length, and special reference is made to those which are of interest in the study of dentistry. The instruction is by lectures, recitations, and practical work by the students in the laboratory in the first semester of the second year.

Dental Chemistry. During the third year this preliminary training in chemistry is followed by lectures, recitations, and laboratory work in dental chemistry. The metals, with their alloys and salts as used in dentistry, the bones and the teeth, the saliva, and the chemistry of the mouth are studied.

ORTHODONTIA

Dr. DELABARRE

Dr. ALLEN

Dr. DUDDY

Dr. A. L. MORSE

Dr. LYNCH

Dr. PIERCE

The Junior year is devoted to the theory of normal and malocclusion, history, diagnosis, etiology, technique and uses of appliances, continuing in the Senior year with the practical application of the principles of orthodontic procedure to the different classes of malocclusion and to actual cases. Each student is required to conduct at least one case, doing all of the work under instruction and supervision.

PATHOLOGY AND BACTERIOLOGY

Dr. TIMOTHY LEARY

Dr. OLGA LEARY

Dr. DUNBAR

Dr. GUTHRIE

Dr. MCCARTHY

Dr. DWYER

Dr. KING

Dr. WATSON

Miss FRITZ

Miss PEWS

The subjects of pathology and bacteriology are considered together. This method permits showing the relation of bacteria to the disease processes which they produce. The work will consist of lectures, required laboratory work, and demonstrations. The student is made acquainted with the bacteria of the mouth, and is required to cultivate and study the important organisms. He is expected to carry out experiments to demonstrate the production of artificial caries. The subject of general pathology is thoroughly covered. The special pathology of the mouth, and of the respiratory and intestinal tracts, is given particular attention. Inflammations, especially the infectious types, among which are the lesions produced by the pyogenic bacteria, are carefully considered. The process of repair in soft tissue and bone, and tumors of the mouth and face, are studied from sections of lesions.

PHARMACOLOGY

DR. F. G. WHEATLEY

Dr. HASKINS

Dr. FUNNELL

Dr. MCCRUDDEN

Instruction in pharmacology consists of lectures, recitations, and laboratory exercises. Special attention is given to the physiological action of drugs, and to the relation always existing between therapeutics, physiology and pathology. The laboratory course is designed to familiarize the student with all medicinal preparations and processes.

Prescription writing receives careful attention and recent additions to *materia medica*, deemed of interest to the dentist, are duly considered.

OPERATIVE DENTISTRY

Dr. RICE

In operative dentistry the instruction is both didactic and clinical. Lectures are given covering the whole field, and familiarizing the student with methods, the conditions under which different filling materials are used, and the most approved manipulation of the same. Many lectures are followed by clinics at which attendance is obligatory. Emphasis is placed upon the preparation of cavities for filling. Instruction is further given concerning the pathological conditions of the mouth and the treatment of the same, exposed pulps, inflamed pulps, dead pulps, abscesses, inflammation of the peridental membrane, and allied subjects. Attention is given to the preparation of cavities for porcelain filling.

ORAL SURGERY

Dr. CHENERY

The course in oral surgery consists of a series of lectures. These lectures explain the fundamental facts which should be understood by all students who propose to treat any part of the human body.

Asepsis and anesthesia are discussed, and practically demonstrated in the infirmary. The student is instructed in the

administration of ether and of nitrous-oxide gas. In addition to the daily instruction, one morning in each week is devoted wholly to this work, the class being divided into sections. At this weekly demonstration, cases are presented exemplifying the choice of anesthetics. The danger signals of anesthesia are considered, and the proper treatment explained. Local anesthesia receives careful attention, and its limitations are pointed out.

The technique of aseptic and antiseptic methods in dental work is thoroughly explained.

ANESTHESIA AND EXTRACTION

Dr. STROUT

Dr. CANAVAN

The extracting room is supplied with all needful instruments and appliances for extracting teeth and for the performance of the simpler operations in surgery. Ample waiting rooms are adjacent, and also rooms for the care of patients after anesthesia. Administrations of nitrous-oxide gas and ether are made on regular days. The room is at all times under the personal supervision of the instructor in Anesthesia.

General Information

TERM EXAMINATIONS

Regular examinations for promotion and for graduation are held at the end of each course.

In all examinations (except those for entrance) each student must register by signing his name on the registration blank provided by the Secretary for that purpose.

At the end of each session a certificate of his standing for the year is sent by mail to each student. No marks will be sent or credit given to any student who is in arrears with the Bursar.

PROMOTION

Students who have passed the requirements for admission and the examinations of the first-year class are, on recommendation of the Faculty, promoted to the second-year class. Similarly, students who have no first-year conditions and have passed their second-year examinations are admitted to the third-year class.

STATE BOARD EXAMINATIONS

Students shall not take State Board Examinations in Dentistry previous to the time of final examinations of the third year, without written permission from the Secretary of the Dental School.

GRADUATION

Before the degree of Doctor of Dental Medicine can be conferred, the candidates must fulfil the following requirements:

1. They must have paid all Dental School charges including the cost of diploma.
2. They must present a certificate that they are twenty-one years of age and of good moral character.
3. They must have passed all the required examinations, and have performed the required amount of laboratory and clinical work.

4. They must have satisfied the professors of clinical and prosthetic dentistry of their ability to meet satisfactorily the requirements of the profession.

5. They must have attended some accredited dental school for three college years, the last of which must have been at this School.

HONORS

Students who have attended this School for three years, and have obtained an average of ninety per cent. in their first examinations, shall be eligible to "*summa cum laude*," and those who have obtained an average of eighty per cent. shall be eligible to "*cum laude*."

Students who have failed in any examination are not eligible for honors.

Degrees are publicly conferred on Commencement Day at Goddard Chapel, Tufts College.

The College reserves the right to accept and retain students as it may elect. Requirements and regulations are subject to change without notice.

DEGREES AND HONORS

1915-1916

Sixtieth Annual Commencement

June 21, 1916

DEGREES CONFERRED IN COURSE

Bachelor of Letters

John Whittemore Farwell (*extra ordinem* as of the Class of 1866)

Bachelor of Arts

Carl Oscar Anderson	Edward Watson Gore
John Bancroft Bisbee	Earl Smith Hewitt
Benedict Fenwick Boland	John Nicol Mark (<i>magna cum laude</i>)
Francis Joel Foster	Thomas Montgomery Mark (<i>magna cum laude</i>)
Herbert Moulton French	Donald Ross McJannet
George Lester Fuller	Richard Patterson
William Gaskin	Albert Walter Swenson (<i>summa cum laude</i>)
Benjamin Ira Golden	

Bachelor of Science

Herbert Eustace Armstrong (<i>cum laude</i>)	William Harrison Proctor
James Lawrence Brown, Jr. (<i>extra ordinem</i> as of the Class of 1915)	Harold Francis Roche (<i>summa cum laude</i>)
Philip Barker Crosby	Frederick Lynne Ryan
Julian Richard Cross	Dirrell Daniel Sample
Gerald Leo Doherty	Richard Ilsley Smith
Kenneth Rogers Hill	Courtney Nash Starkweather
Egbert William Ashford Jenkinson	Sidney Cushing Wiggin
Aubrey Irving Nellis	Earl Snow Wilson

Bachelor of Science in Chemistry

Windom Alpheus Allen (<i>extra ordinem</i> as of the Class of 1915)	Frank Simon Shapiro
Arthur Vincent Donnellan	John Blackmer Smith
Frederick Potter Flagg	Clayton Cree Spencer (<i>magna cum laude</i>)
Samuel Loomis	Henry Alexander Stafford
Arthur Winchester Morrison (<i>extra ordinem</i> as of the Class of 1915)	Carl Weston Staples
Leo Thomas Murphy	Max Tennis (<i>cum laude</i>)
Alexander Clifford Nixon, Jr.	Cecil Benton Town (<i>summa cum laude</i>)
Israel Jacob Pollack	Lester Newton Towne
Everett Lenox Reed	

Bachelor of Science in Civil Engineering

David Ferguson	John Arthur Neale (<i>extra ordinem</i> as of the Class of 1915)
Henry Edward Halpin (<i>summa cum laude</i>)	Conrad Pennucci
Robert Leston McLellan (<i>cum laude</i>)	Kinsley Barrett Thorndike

Bachelor of Science in Structural Engineering

John Irving Copp (<i>summa cum laude</i>)	Everett Currie Hunt
	William Arthur Keyes (<i>cum laude</i>)

Bachelor of Science in Electrical Engineering

Edward Franklin Hall	Harold Sylvester Hamilton
	Richard Bruce Webb (<i>cum laude</i>)

Bachelor of Science in Mechanical Engineering

Roy Cuming Brett	Edwin Chandler Esten (<i>cum laude</i>)
Thomas Christopher Coleman, Jr. (<i>summa cum laude</i>)	John William Fairbank (<i>magna cum laude</i>)
Frederick Joseph Ellis	Leslie Eames Garde
	Raymond Clyde Taylor (<i>cum laude</i>)

Bachelor of Science in Chemical Engineering

John Harold Boss	Charles George Kramer
George Alonzo Dalton	Cedric Crandon Lee
Nelson William Dempsey	William Joseph Mishel
Charles Franklin Jameson (<i>extra ordinem</i> as of the Class of 1915)	Clinton Russell Powers

Bachelor of Sacred Theology

Thomas Montgomery Mark

Master of Arts

Margaret Hutton Abels

Master of Science

Carl Arshag Garabedian

Ralph Oliver Philips

Honors

Thomas Christopher Coleman, Jr., (Mechanical Engineering)	John Nicol Mark (English)
John Irving Copp (Structural Engineering)	Thomas Montgomery Mark (English)
John William Fairbank (Mechanical Engineering)	Harold Francis Roche (History and Public Law)
Henry Edward Halpin (Civil Engineering)	Clayton Cree Spencer (Chemistry)
	Albert Walter Swenson (French)
	Cecil Benton Town (Chemistry)

Honorable Mention

Herbert Eustace Armstrong (Political Science)	Robert Leston McClellan (Civil Engineering)
Thomas Christopher Coleman, Jr. (Electrical Engineering)	Harold Francis Roche (Political Science)
John Irving Copp (Civil Engineering)	Albert Walter Swenson (English)
Edwin Chandler Esten (Mechanical Engineering)	Raymond Clyde Taylor (Mechanical Engineering)
Henry Edward Halpin (Structural Engineering)	Max Tennis (Biology)
William Arthur Keyes (Structural Engineering)	Cecil Benton Town (Biology)
	Richard Bruce Webb (Electrical Engineering)

Doctor of Medicine

Samuel Edson Abbott	Harold Russell Green (<i>extra ordinem</i> as of the Class of 1915)
Arthur Forest Anderson (<i>cum laude</i>)	Frank Smith Hale (<i>cum laude</i>)
Jacob Applebaum (<i>cum laude</i>)	Wilbert Clark Hardy
Charles Aronson (<i>cum laude</i>)	Frank Edwin Harriman
Thomas Matthew Barry (<i>extra ordinem</i> as of the Class of 1915)	David Joseph Herlihy
Jesse Wolfenden Battershall (<i>cum laude</i>)	William Cyril Row Hurley (<i>cum laude</i>)
Alfred William Berr (<i>cum laude</i>)	John Greenwood Jennings (<i>extra ordinem</i> as of the Class of 1915)
Catherine Elizabeth Brannick (<i>cum laude</i>)	Anna Hilda Kandib (<i>cum laude</i>)
Harold Edward Carney	Simon Bartholomew Kelleher (<i>extra ordinem</i> as of the Class of 1915)
John Henry Cauley (<i>cum laude</i>)	Edward Joseph LaLiberte
Samuel Edward Chalfen (<i>cum laude</i>)	Charles Leo Lynch
Leo Cohen (<i>cum laude</i>)	Lillian Lee MacPhee
Samuel Adams Cohen	Charles Elmer Magoun (<i>extra ordinem</i> as of the Class of 1915)
Hilary Joseph Connor	William Richard Martin
William Frederick Cotting (<i>cum laude</i>)	Robert Lewis McKiernan
Stephen James Dalton	Eliza Armenoohi Melkonian
Vincent James DiMento (<i>cum laude</i>)	Florence Lyndon Meredith (<i>cum laude</i>)
John Duff, Jr.	William Henry O'Connor
Joseph Henry Dunn (<i>cum laude</i>)	George William Papen (<i>cum laude</i>)
Nicholas DuVally (<i>cum laude</i>)	Walter Leslie Perry
Edna Frances Easter	Harris Earle Powers
Herbert Reynold Fiege (<i>cum laude</i>)	Thomas Christopher Quirk (<i>extra ordinem</i> as of the Class of 1915)
Myer Aaron Fleeter (<i>extra ordinem</i> as of the Class of 1915)	Moses Bernhard Radding
Arthur Leonard Gaetani (<i>cum laude</i>)	George Arnold Rice (<i>cum laude</i>)
Arthur Joseph Ganley, B.S.	Israel Ellis Rudman
Victor Patrick Genge	
Winifred Margaret Grant (<i>cum laude</i>)	

David Miller Scott, A.B.	Henry Pratt Tobey
Hugh Ludwig Simmons	Louis Joseph Ullian
Joseph Jacob Skirball (<i>cum laude</i>)	Kathalyn Voorhis
Bernard Spillane, A.B.	Esther Marguerite Park Ward
Daniel Joseph Sullivan, A.B. (<i>cum laude</i>)	Bernard Weiss
Robert Thomas Sullivan	Leroy Danforth Whitney (<i>extra ordinem</i> as of the Class of 1915)
Ester Mathilda Eleonora Sundelöf (<i>cum laude</i>)	William Baxter Wood
Edward James Tierney (<i>cum laude</i>)	Wong King Yat
	Angelo Mario Zarrella

Doctor of Dental Medicine

Hyman Joseph Adelstein	Charles Elliot Hatch
Ernest William Auger	Myles Thomas Hogan (<i>extra ordinem</i> as of the Class of 1915)
Fay Tarence Bowen	Nathan Israel Jaffee
William Foster Brown	Alexander Patterson Johnstone
Harold Freeman Burrell	Stanley Clifford Keene
Richard Philemon Caisse	Walter Donovan Kells
Arthur Martin Carignan	Clifford Earland Kelly
Ralph Arthur Carroll	Alexander Leslie Keltie
Harry Charren	Theodore Edward LaFayette, Jr. (<i>cum laude</i>)
Garnet Coburn	Jules Arthur LeBlanc, B.A.
Joseph Harold Cohen (<i>extra ordinem</i> as of the Class of 1915)	Louis Lesser
Samuel Jacob Court	Angelo Luciano
Henry James Cronin	Richard Alphonsus Lynch
Ralph Edward Cunningham	William John Mackey, Jr.
Hilma Adella Davis	John Joseph Mahoney
Edmond Leonide Desautels	Newell Cephas Mayo
Joseph James Donahue	Thomas Charles McDonnell (<i>extra ordinem</i> as of the Class of 1915)
Paul Aloysius Donohue	Martin Henry McGrath (<i>extra ordinem</i> as of the Class of 1915)
Philip Dorenbaum	Matthew Aloysius Meagher
Louis Philip Doucet	Philip Edward Meltzer (<i>extra ordinem</i> as of the Class of 1915)
Philip Arthur Duffy	Frank Walsh Moulitis
Andrew George Farquhar	Thomas Bernard O'Leary
Joseph Augusto Fialho	Arcade Joseph Ouimet, B.S.
Nathan Hyman Finkelstein	James William Marsden Parks, Jr.
Harry Freundlich	Willis Burleigh Parsons (<i>cum laude</i>)
Robert Emmet Getchel	Abijah Davenport Pierce (<i>cum laude</i>)
Cranston Franklin Godfrey, Jr. (<i>extra ordinem</i> as of the Class of 1915)	Mossman Gardner Reed
Frank Luther Goodspeed (<i>cum laude</i>)	
Francis Joseph Greeley	
Harvey LeRoy Haskell	

William Edward Reed
 Edwin James Roche
 John Miller Schofield
 John Emery Sewell
 George Roy Smith
 Roy Weir Smith
 Maurice Spack
 Everett Eaton Spears
 Walter Martin Stankard
 Marion Cecelia Stevens
 Joseph Alfred Streker

Chester Henry Tannebring
 John Donoclift Thomas
 Walter Jacob Volk
 John Aloysius Wade
 William Dodge Walker, A.B.
 Edward Herman Westphal
 Walter Elton Whittaker
 Frank Xavier Widdowson, A.B.
 Clarence Wight (*extra ordinem* as of
 the Class of 1915)
 Bruce McClellan Wolff

Jackson College for Women

Bachelor of Arts

Ruth Burbank (<i>cum laude</i>)	Marion Hall
Lucille Horton Chipman	Beulah Myrtle Hamilton (<i>cum laude</i>)
Alice May Cotton (<i>summa cum laude</i>)	Isabel Harrington
Margaret Cragin (<i>summa cum laude</i>)	Dorothy Hart (<i>magna cum laude</i>)
Dorothy Bascom Cutler (<i>magna cum laude</i>)	Avis Jeanette Keir
Pauline Duffey	Mabel Knowles Matheson
Mary Violetta Gardner (<i>magna cum laude</i>)	Christine Blanche Noyes (<i>summa cum laude</i>)
Aileen Alberta Hagerty	Lydia Josephine Piper

Bachelor of Science

Madeline Jeffers	Emilie Poor Osborn
Mildred Anna Dacey	Bernice Ethel Wood (<i>cum laude</i>)

Bachelor of Science in Chemistry

Madeleine Bixby (*summa cum laude*)

Associate in Arts

Daisy Mae Bartlett

Honors

Madeleine Bixby (Chemistry)	Dorothy Bascom Cutler (English)
Alice Mae Cotton (English and French)	Mary Violetta Gardner (English)
Margaret Cragin (Greek)	Dorothy Hart (English)
	Christine Blanche Noyes (English and Latin)

Honorable Mention

Madeleine Bixby (Philosophy)	Beulah Myrtle Hamilton (History and Public Law)
Ruth Burbank (Biology)	Bernice Ethel Wood (Political Science)
Margaret Cragin (Latin)	

Commencement Parts

- Donald Ross McJannet, Cand. A.B.: "The Myth of Mental Discipline."
- George William Papen, Cand. M.D.: "One Phrase of Tuberculosis Treatment."
- Alice Mae Cotton, Cand. A.B.: "The Stuff as Dreams are Made On."
- Thomas Christopher Coleman, Jr., Cand. B.S.: "Safety Engineering."
- James William Marsden Parks, Jr., Cand. D.M.D.: "The Place of Dentistry in Modern Preventive Practice."
- Thomas Montgomery Mark, Cand. S.T.B.: "The Spirit of Christ and the Present Crisis."

Diplomas Given Subsequent to June, 1916**Doctor of Medicine**

(Extra ordinem as of the Class of 1916)

Paul Carroll Dennett	Earl Cunningham MacCordy
Alfred Edward Gallant	Alexander Mileau, Jr.
Goodwin Adolph Johnson	Rudolph Jonas Shafer
Angelo Liberti	John Gerard Sweeney

Doctor of Dental Medicine

(Extra ordinem as of the Class of 1916)

Sidney Herman Beerman	Samuel Krasnoo
Charles William Coggin	John Henry McKenna
Harold William Crowell	James Emmett Nastasia
Obadiah Armstrong Demarest	Edmund Andrew Pierce
Alexander Goldbarg	Benjamin Rommel
William Francis Welch	

Awards of Prizes 1915-1916

Scholarship of the Class of 1898

Helen Almira Rowe

Greenwood Prize Scholarship in Oratory

Jesse Moses Aronson

Goddard Prize in Biology

Clarence Dunbar Hart

Moses True Brown Scholarship

Leonard Alexander Rice

Alpha Omicron Pi Scholarship

Geneva Alice Wheet

Alpha Xi Delta Scholarship

Esther Parshley

Chi Omega Scholarship

Helen Beatrice Crocker

Sigma Kappa Scholarship

Nellie Birkenhead Mansfield

Rhetorical Prizes*First Prize*

Albert Walter Swenson

Second Prize

Earl Smith Hewitt

Third Prize

Jesse Moses Aronson

REGISTER OF STUDENTS

Students Enrolled in Tufts College

1916-17

[In the following list the course pursued by each student is indicated by the *Italic* letters immediately following the name. The signs used are as follows: courses leading to the degree of A.B., *ab*; to the degree of B.S., *bs*—in Civil Engineering, *ce*; in Structural Engineering, *ste*; in Electrical Engineering, *ee*; in Mechanical Engineering, *me*; in Chemical Engineering, *che*. For the first two years in the Engineering School no differentiation is made.

The third column records the home address, which is in Massachusetts unless stated to be elsewhere. The fourth column gives the address at Tufts College, unless the street is printed in *Italics*, in which case it is a part of the home address.]

School of Liberal Arts

Senior Class

Borden, Karl Bigelow	<i>bs</i>	<i>Collinsville, Conn.</i>	Φ Δ House
Bratt, Albert Verner	<i>bs</i>	<i>Everett</i>	Δ T Δ House
Carro, Leon Julius	<i>ab</i>	<i>Revere</i>	Dean, 9
Claff, Elmer Louis	<i>bs</i>	<i>Everett</i>	160 Chestnut St.
Collins, Harold Edward	<i>bs</i>	<i>Haverhill</i>	West, 2
Curtin, Francis Gregory	<i>bs</i>	<i>Medford</i>	93 Governor's Ave.
Davies, Roland Crocker	<i>ab</i>	<i>Tufts College</i>	72 Professors Row
Hart, Clarence Dunbar	<i>bs</i>	<i>W. Somerville</i>	35 Charnwood Rd.
Hurley, Harold Francis	<i>bs</i>	<i>Malden</i>	88 Hubbard St.
Jones, Herman Wentworth	<i>bs</i>	<i>W. Somerville</i>	20 Winslow Ave.
Marrow, Oscar Earl	<i>bs</i>	<i>Ossipee, N. H.</i>	Z Ψ House
Mohor, Albert John	<i>bs</i>	<i>Newton Center</i>	East, 25
Penaligan, James Henry	<i>bs</i>	<i>Winchester</i>	Z Ψ House
Poole, Joseph Ellsworth	<i>bs</i>	<i>Dover</i>	Φ Δ House
Scamman, William Merrill	<i>bs</i>	<i>Lexington</i>	Φ Δ House
Sefton, Archibald Kyle	<i>bs</i>	<i>Medford Hillside</i>	93 Capen St.
Spunt, William	<i>bs</i>	<i>Winthrop</i>	Φ E Π House
Stanton, Charles Ingram	<i>bs</i>	<i>Revere</i>	Δ T House
Sweet, Walter Prescott	<i>bs</i>	<i>W. Somerville</i>	Δ T House
Symmes, Leland Parker	<i>bs</i>	<i>Beverly</i>	A T Ω House
Watson, Barron Crowell	<i>bs</i>	<i>Tremont, Me.</i>	Θ Δ X House
Whippen, Elbert Wilder	<i>ab-bd</i>	<i>Kingston, N. H.</i>	Paige, 13

Junior Class

Ayers, Charles Frank	<i>bs</i>	<i>Everett</i>	Σ T A House
Ball, Leon Eugene	<i>bs</i>	<i>So. Berwick, Me.</i>	Dean, 3
Barbara, Charles Albert	<i>bs</i>	<i>Port Chester, N. Y.</i>	Paige, 20
Bartlett, Howard Searles	<i>ab</i>	<i>Brookline</i>	West, 5
Burns, Edward Gregory	<i>ab</i>	<i>Taunton</i>	West, 9
Cameron, Daniel Clarence	<i>bs</i>	<i>Arlington</i>	Δ T Δ House

Coddington, Philip Littlefield	<i>bs</i>	<i>Berlin, N. H.</i>	Dean, 11
Coffey, Daniel Lorden	<i>ab</i>	<i>Medford</i>	38 Touro Ave.
Colcord, Elmer Danforth	<i>bs-bd</i>	<i>Pittsfield, Me.</i>	Paige, 7
Coussoule, Loukas Nicholas	<i>ab</i>	<i>Sparta, Greece</i>	298 Boston Ave., Medford
Cronin, George Robert	<i>bs</i>	<i>South Boston</i>	Φ Δ House
Ellis, William	<i>bs</i>	<i>Roxbury</i>	8 Cunard St.
Geddes, James Gardner	<i>bs</i>	<i>Somerville</i>	88 Munroe St.
Geer, James Clifford	<i>bs</i>	<i>Three Rivers</i>	A T Ω House
Given, Minott Denham	<i>bs</i>	<i>Melrose</i>	147 First St.
Goldberg, Bernard Isadore	<i>bs</i>	<i>Roxbury</i>	West, 26
Gordon, Israel	<i>bs</i>	<i>Boston</i>	West, 15
Green, Bertram Emanuel	<i>bs</i>	<i>Malden</i>	390 Salem St.
Jochim, Henry Frank	<i>bs</i>	<i>Revere</i>	West, 9
Lalor, Daniel Edward Coffey	<i>bs</i>	<i>Watervliet, N. Y.</i>	East, 18
Lamont, Arthur Lindley	<i>ab</i>	<i>W. Somerville</i>	13 Conwell Ave.
Lane, Franklin Johnson	<i>bs</i>	<i>Winchester</i>	Dean, 10
Marsh, Carl Alphonso	<i>ab</i>	<i>Brattleboro, Vt.</i>	Δ T House
Mendum, Willis Clark	<i>ab</i>	<i>Woburn</i>	16 Arlington Rd.
Messer, Theodore Powers	<i>bs</i>	<i>Somerville</i>	West, 12
Miller, Herbert Dwight	<i>bs-bd</i>	<i>Tufts College</i>	Paige, 3
Morison, Trueman Greene	<i>bs</i>	<i>W. Somerville</i>	Δ T House
O'Keefe, David Charles	<i>bs</i>	<i>Revere</i>	West, 23
Paul, Frederick Henry, Jr.	<i>bs</i>	<i>Waltham</i>	West, 22
Peck, Howard Bennett	<i>bs</i>	<i>Bridgewater, Conn.</i>	Δ T House
Porter, Russell Woods	<i>ab</i>	<i>Springfield</i>	A T Ω House
Reed, Alfred Smith	<i>bs</i>	<i>Roslindale</i>	Dean, 14
Rice, Leonard Alexander	<i>ab</i>	<i>Somerville</i>	Dean, 9
Rood, George Wilson	<i>ab</i>	<i>W. Somerville</i>	63 Curtis St.
Warren, Lowell Alfred	<i>bs</i>	<i>Waltham</i>	30 Prospect St.
Weisberg, Max	<i>bs</i>	<i>Boston</i>	42 Staniford St.
Williams, Harold Jenkin	<i>bs</i>	<i>Quincy</i>	107 Common St.

Sophomore Class

Baird, Arthur Earl	<i>bs</i>	<i>South Boston</i>	Paige, 25
Barrows, Wendell Parsons	<i>bs</i>	<i>Waltham</i>	101 Alder St.
Beacham, Earl Shepard	<i>bs</i>	<i>Poughkeepsie, N. Y.</i>	A T Ω House
Beattie, Ralph	<i>ab</i>	<i>North Andover</i>	West, 32
Beyer, Samuel Harry	<i>bs</i>	<i>Roxbury</i>	West, 31
Campbell, Alan Bailey	<i>ab</i>	<i>Dorchester</i>	Δ T House
Crocker, Willard Frederick	<i>bs</i>	<i>Quincy</i>	West, 5
Crockett, David	<i>ab</i>	<i>Arlington Heights</i>	15 Wachusett Ave.
Cronin, George Francis	<i>bs</i>	<i>Malden</i>	Σ T A House

Cutter, Edward Russell	<i>ab</i>	<i>Arlington</i>	<i>167 Summer St.</i>
Cutting, Ralph Curtis	<i>bs</i>	<i>Cambridge</i>	<i>375 Broadway</i>
Davis, Philip Sidney	<i>bs</i>	<i>Somerville</i>	Dean, 1
Eveleth, George Simmonds, Jr.	<i>bs</i>	<i>Little Falls, N. Y.</i>	West, 32
Farley, Albert Leo	<i>bs</i>	<i>Boston</i>	<i>76 Alleghany St.</i>
Fernald, James Merrill	<i>ab</i>	<i>Fitchburg</i>	<i>Whalom Park</i>
Finn, Julius Gerstein	<i>bs</i>	<i>Roxbury</i>	<i>41 Georgia St.</i>
French, Winslow Hall	<i>bs</i>	<i>Waltham</i>	West, 2
Garabedian, Harold Arsen	<i>bs</i>	<i>Dorchester Center</i>	East, 27
Gould, Douglas Warren	<i>bs</i>	<i>Malden</i>	$\Phi \Delta$ House
Gruber, Barnet	<i>bs</i>	<i>Boston</i>	<i>77 Phillips St.</i>
Guberman, Philip	<i>bs</i>	<i>Boston</i>	<i>20 Garden St.</i>
Henrich, Karl Raymond	<i>ab</i>	<i>Orange</i>	West, 17
Howard, George Arthur	<i>bs</i>	<i>Balboa, Canal Zone</i>	
		<i>96 Oxford St., Somerville</i>	
Jeffery, Madison Peters	<i>ab</i>	<i>Malden</i>	<i>5 Arlington Terrace</i>
Johnson, Winthrop Mann	<i>bs</i>	<i>Natick</i>	<i>5 Concord St.</i>
Leach, Edgar Percy	<i>bs</i>	<i>Methuen</i>	East, 26
Lebowich, Richard Jacob	<i>bs</i>	<i>Dorchester</i>	West, 26
Lowenstan, Sigmund	<i>bs</i>	<i>Somerville</i>	<i>31 Thurston St.</i>
MacLeod, Earle Harvey	<i>bs</i>	<i>Clifftondale</i>	West, 10
Marcus, Saul Maurice	<i>bs</i>	<i>Lynn</i>	<i>73 Rockaway St.</i>
McKenna, Hugh Steele	<i>bs</i>	<i>Thompsonville, Conn.</i>	West, 7
McKenzie, William Forbes	<i>bs</i>	<i>Thorndike</i>	A T Ω House
McNamee, Albert Percy	<i>bs</i>	<i>Belmont</i>	East, 16
Nathanson, Robert Bernard	<i>bs</i>	<i>Boston</i>	<i>8 Parkman St.</i>
Quint, Samuel Theodore	<i>bs</i>	<i>Malden</i>	$\Phi E \Pi$ House
Rogers, Harold Arthur	<i>bs</i>	<i>W. Somerville</i>	<i>39 Paulina St.</i>
Ropes, Lawrence Goodhue	<i>ab</i>	<i>Salem</i>	Z Ψ House
Schenk, Harold Louis	<i>ab</i>	<i>Wheeling, W. Va.</i>	West, 28
Segel, Abram	<i>bs</i>	<i>Melrose</i>	$\Phi E \Pi$ House
Stroehmann, Carl Frederick	<i>bs</i>	<i>Wheeling, W. Va.</i>	West, 28
Whitcomb, Lyman Wells	<i>ab</i>	<i>Barre, Vermont</i>	West, 16
Williams, Allton Thomas	<i>ab</i>	<i>Revere</i>	<i>381 Broadway</i>
Williams, Richard Joseph	<i>bs</i>	<i>Lynn</i>	East, 27
Wood, Ralph Peirce	<i>bs</i>	<i>Everett</i>	$\Phi \Delta$ House
Young, Raymond Morrison	<i>bs</i>		$\Theta \Delta X$ House

Freshman Class

Adamson, George Dent	<i>bs</i>	<i>Manassas, Va.</i>	<i>7 Alfred St., Medford</i>
Anderson, Paul Joseph Adolph	<i>bs</i>	<i>So. Manchester, Conn.</i>	East, 29
Ballou, John Lyman	<i>bs</i>	<i>Medford</i>	<i>76 Winthrop St.</i>
Beaton, James Stanley	<i>bs</i>	<i>Manchester</i>	<i>22 Bridge St.</i>

Bedell, Howard Everett	<i>ab</i>	<i>Wilmington</i>	<i>Burlington Ave.</i>
Berquest, Chester Edward	<i>bs</i>	<i>Arlington</i>	<i>259 Massachusetts Ave.</i>
Bouvé, Howard Allston	<i>bs</i>	<i>Wakefield</i>	<i>A T Ω House</i>
Brackett, William Ernest	<i>ab</i>	<i>West Medford</i>	<i>152 Mystic St.</i>
Brewer, John Warren	<i>bs</i>	<i>Hingham</i>	<i>Φ Δ House</i>
Brookings, Roydon Fall	<i>bs</i>	<i>West Medford</i>	<i>West, 2</i>
Brown, William Thomas	<i>bs</i>	<i>Bondsville</i>	<i>East, 18</i>
Cahill, Horace Tracy	<i>bs</i>	<i>Roxbury</i>	<i>23 Dana St.</i>
Cahoon, Sumner Roger	<i>bs</i>	<i>Medford</i>	<i>61 Winthrop St.</i>
Castelbaum, Lewis	<i>bs</i>	<i>Highlands, N. J.</i>	<i>15 Seneca St.</i>
Chapin, Bernard Lorenzo	<i>bs</i>	<i>Somerville</i>	<i>11 Mystic St.</i>
Chapman, Samuel	<i>bs</i>	<i>Marblehead</i>	<i>Z Ψ House</i>
Claff, Philip Frederic	<i>bs</i>	<i>Malden</i>	<i>Φ E Π House</i>
Cohen, Arthur Gilbert	<i>ab</i>	<i>Somerville</i>	<i>West, 20</i>
Cohen, Edward Israel	<i>ab</i>	<i>Roxbury</i>	<i>Φ E Π House</i>
Collins, George William	<i>bs</i>	<i>Medford</i>	<i>Φ Δ House</i>
Cooke, Arthur Burrell	<i>bs</i>	<i>Waltham</i>	<i>Δ T House</i>
Cosgrove, Charles David	<i>bs</i>	<i>Medford</i>	<i>87 Otis St.</i>
Cox, Henry Eugene	<i>ab</i>	<i>East Wakefield, N. H.</i>	<i>West, 10</i>
Davison, John Purley	<i>ab</i>	<i>North Billerica</i>	<i>Paige, 26</i>
Dodge, Gordon Chamberlain	<i>bs</i>	<i>Holden</i>	<i>Dean, 12</i>
Eaton, Joseph Ashley	<i>bs</i>	<i>Rutland, Vt.</i>	<i>East, 22</i>
Eaton, Roland Leonard	<i>ab</i>	<i>Sebasco, Me.</i>	<i>Z Ψ House</i>
Frankel, William Israel	<i>bs</i>	<i>Roxbury</i>	<i>89 Ruthven St.</i>
Friis, Jan Trap	<i>bs</i>	<i>Medford</i>	<i>Z Ψ House</i>
Gifford, Winfred Bradford	<i>bs</i>	<i>Dorchester</i>	<i>18 Plain St.</i>
Givner, Joseph	<i>bs</i>	<i>Mattapan</i>	<i>51 Wildwood St.</i>
Goduti, Emil	<i>bs</i>	<i>Somerville</i>	<i>167 Albion St.</i>
Goldfine, Albert	<i>bs</i>	<i>Boston</i>	<i>Φ E Π House</i>
Hale, Otis Cowell	<i>bs</i>	<i>Somerville</i>	<i>42 Bradley St.</i>
Hall Clifford Roberts	<i>bs</i>	<i>Charlestown</i>	<i>54 High St.</i>
Hall, Webster	<i>bs</i>	<i>Somerville</i>	<i>23 Monroe St.</i>
Hammond, Leigh Hunt	<i>bs</i>	<i>West Newton</i>	<i>A T Ω House</i>
Hammond, Oswald Kenric	<i>ab</i>	<i>Auburn, Me.</i>	<i>East, 33</i>
Harper, Frederick Lawrence	<i>bs</i>	<i>Chelsea</i>	<i>59 Bellingham St.</i>
Haskell, Herman Jonas	<i>bs</i>	<i>Dorchester</i>	<i>34 Greenwood St.</i>
Henderson, Warren James	<i>bs</i>	<i>Arlington</i>	<i>350 Appleton St.</i>
Hubon, Charles Wilson	<i>ab-bd</i>	<i>Salem</i>	<i>Paige, 16</i>
Isaac, Edward John	<i>bs</i>	<i>Brighton</i>	<i>32 Richardson St.</i>
Johnson, Arthur Harmon	<i>ab</i>	<i>Holden</i>	<i>Dean, 12</i>
Joy, Edward Albert	<i>ab</i>	<i>Watertown</i>	<i>54 Spruce St.</i>
Keefe, David Edwin	<i>bs</i>	<i>Richmond, Vt.</i>	<i>West, 3</i>
Keefe, Owen Francis	<i>bs</i>	<i>Watertown</i>	<i>East, 23</i>

Kelley, Philip John	<i>bs</i>	<i>Cambridge</i>	<i>15 Walker St.</i>
Kellock, James Bryden, Jr.	<i>bs</i>	<i>Somerville</i>	<i>22 Dover St.</i>
Kenny, Walter Douglas	<i>bs</i>	<i>Pittsfield</i>	<i>Paige, 14</i>
Lamont, Ralph Wilkinson	<i>ab</i>	<i>Somerville</i>	<i>West, 20</i>
Lewis, Philip Bullard	<i>bs</i>	<i>Tufts College</i>	<i>20 Professors Row</i>
Linsert, Wilfred	<i>bs</i>	<i>Belmont</i>	<i>124 Goden St.</i>
Lipkin, George	<i>bs</i>	<i>Everett</i>	<i>817 Broadway</i>
MacKenzie, Donald Emerson	<i>bs</i>	<i>Waverley</i>	<i>208 White St.</i>
Mahany, Walter Thomson	<i>bs</i>	<i>West Medford</i>	<i>23 Boston Ave.</i>
Malone, James Francis	<i>ab</i>	<i>Dorchester</i>	<i>West, 7</i>
Maslen, William MacMillan	<i>bs</i>	<i>Hartford, Conn.</i>	<i>West, 30</i>
May, William Henry	<i>bs</i>	<i>Cambridge</i>	<i>336 Harvard St.</i>
McClench, Donald	<i>bs</i>	<i>Springfield</i>	<i>Dean, 11</i>
Miles, George Stanley	<i>bs</i>	<i>W. Somerville</i>	<i>249 Elm St.</i>
Mullen, Charles King	<i>bs</i>	<i>Wollaston</i>	<i>190 Everett St.</i>
Nash, Louis Edward	<i>bs</i>	<i>Allston</i>	<i>9 Mansfield St.</i>
Newton, Carl Elbridge	<i>bs</i>	<i>Somerville</i>	<i>8 Westwood Rd.</i>
Nickerson, Donald Edgar	<i>ab</i>	<i>W. Somerville</i>	<i>31 Conwell Ave.</i>
O'Donnell, John Parsons	<i>ab</i>	<i>Melrose</i>	<i>54 Bellevue Ave.</i>
Olson, Arvid Leonard	<i>bs</i>	<i>Somerville</i>	<i>28 Gibbens St.</i>
Olson, Wallace Bruce	<i>ab</i>	<i>Somerville</i>	<i>741 Broadway</i>
Patrician, Edward Vent, Jr.	<i>bs</i>	<i>W. Somerville</i>	<i>12 Grove St.</i>
Peirce, Laurence L. Jr.,	<i>bs</i>	<i>Arlington Heights</i>	<i>52 Robbins Rd.</i>
Pieper, Charles Albert	<i>bs</i>	<i>Gretna, Manitoba, Canada</i>	<i>440 Newbury St., Boston</i>
Pierce, Chester Blanchard	<i>bs</i>	<i>Roslindale</i>	<i>33 Ashfield St.</i>
Poole, Arthur Edward	<i>bs</i>	<i>Dover</i>	<i>Φ Δ House</i>
Prescott, Daniel Alfred	<i>bs</i>	<i>Medford</i>	<i>7 Alfred St.</i>
Pryor, Paul Lawrence	<i>ns</i>	<i>Revere</i>	<i>Σ T A House</i>
Quian, David Harold	<i>bs</i>	<i>Boston</i>	<i>568 Newbury St.</i>
Reagan, Neil Francis	<i>bs</i>	<i>St. Albans, Vt.</i>	<i>East, 31</i>
Roman, John Baptiste	<i>bs</i>	<i>Charlestown</i>	<i>42 Winthrop St.</i>
Ruddy, Hiram Richard	<i>bs</i>	<i>Watervliet, N. Y.</i>	<i>East, 26</i>
Ruggeri, Samuel	<i>bs</i>	<i>So. Boston</i>	<i>West, 23</i>
Rutter, John Elliot	<i>bs</i>	<i>Waltham</i>	<i>East, 29</i>
Scheinfein, Samuel Solomon	<i>bs</i>	<i>Mulden</i>	<i>121 Tremont St.</i>
Scott, Carroll Edward	<i>ab</i>	<i>Farmington, N. H.</i>	<i>Δ T House</i>
Shepard, Sumner Ware	<i>ab</i>	<i>Everett</i>	<i>16 Winthrop St.</i>
Sherin, Marcus Leon	<i>bs</i>	<i>Swampscott</i>	<i>55 Puritan Rd.</i>
Solomon, Samuel Alexander	<i>bs</i>	<i>Dorchester</i>	<i>6 Lorne St.</i>
Stilphen, Mortimer Bullard	<i>ab</i>	<i>Swanton, Vt.</i>	<i>East, 6</i>
Stone, Donald Pitman	<i>bs</i>	<i>Marblehead</i>	<i>West, 29</i>
Sweeney, Frederick Lawrence	<i>ab</i>	<i>E. Boston</i>	<i>35 Bennington St.</i>

Symmes, Marshall Wyman	<i>bs</i>	<i>Winchester</i>	251 Main St.
Taggart, Curtis Learoyd	<i>bs</i>	<i>Wakefield</i>	East, 23
Teele, Kenneth Robert	<i>bs</i>	<i>San Juan, P. R.</i>	Δ T Δ House
Thiesfeldt, Arnold Edward	<i>bs</i>	<i>Gardner</i>	East, 23
Thissell, Paul Edwin	<i>ab</i>	<i>E. Saugus</i>	Sumner St.
Trimble, Alfred King	<i>bs</i>	<i>Cambridge</i>	1137 Mass. Ave.
Tucker, Joseph Robley	<i>ab</i>	<i>Berlin, N. H.</i>	Dean. 10
Tyler, Maurice Leslie	<i>bs</i>	<i>W. Medford</i>	Z T House
Walker, Edgar Ruston	<i>bs-bd</i>	<i>Cambridge</i>	140 Magazine St.
Weston, Ralph Dewey	<i>ab</i>	<i>W. Bridgewater</i>	West, 16 1/2
Whitmarsh, George Freeman	<i>bs</i>	<i>E. Braintree</i>	West 4
Winer, Hyman William	<i>bs</i>	<i>Dorchester</i>	Φ E Π House
Winston, Frank Thomas	<i>bs</i>	<i>E. Boston</i>	53 St. Andrew Rd.
Woodward, Clarence Harvey	<i>ab</i>	<i>Tyngsboro</i>	West, 27

Unclassified Student

Berenson, Hyman	<i>bs</i>	<i>Boston</i>	57 Auburn St.
Bruyette, Harold Lawrence	<i>bs</i>	<i>Collinsville, Conn.</i>	Φ Δ House
Casey, Frederick Herrick	<i>bs</i>	<i>Malden</i>	19 Earl St.
Falk Arthur Herman	<i>bs</i>	<i>Dorchester</i>	307 Harvard St.
Grunt, Jacob Leon	<i>bs</i>	<i>Dorchester</i>	124 Devon St.
Hamlin, Roger Chesley		<i>W. Roxbury</i>	148 Stratford St.
Holt, Francis Stetham	<i>bs</i>	<i>Cambridge</i>	95 Raymond St.
Keller, Norman Luther	<i>bs</i>	<i>Bedminster, Pa.</i>	
		Y. M. C. A., Somerville	
Lubinsky, George	<i>ab</i>	<i>Fall River</i>	157 College Ave.
Perham, Sidney Craig	<i>bs</i>	<i>Chelmsford</i>	West, 17
Rourke, John Joseph	<i>bs</i>	<i>Worcester</i>	444 Main St., Malden
Sylvester, Harry Lysle	<i>bs</i>	<i>Lowell</i>	East, 21
Wright, Wm. Bleecker	<i>bs</i>	<i>Sierra Madre, Cal.</i>	Dean, 5

Special Student

Towne, Carlton George	<i>New Bedford</i>	East, 13
-----------------------	--------------------	----------

Supplementary List

(Students present during the second semester of 1915-16, but not appearing in the catalogue.)

Colcord, Elmer Danforth	<i>bs-bd</i>	<i>Pittsfield, Me.</i>	Paige, 7
Ludden, Hobart Hayes	<i>bs</i>	<i>Waltham</i>	20 Lexington Terrace
Olson, Wallace Bruce	<i>bs</i>	<i>Somerville</i>	741 Broadway

Crane Theological School

SIX-YEAR COURSE

Sixth Year

Bisbee, Eleanor	<i>bd</i> Arlington Heights	Richardson, 1
<i>A.B., 1915</i>		
Bisbee, John Bancroft	<i>bd</i> Arlington Heights	Paige, 31
<i>A.B., 1916</i>		

Fifth Year

Mark, John Nicol	<i>bd</i> Glasgow, Scotland	Paige, 18
<i>A.B., 1916</i>		

Fourth Year

Colcord, Elmer Danforth	<i>bs-bd</i> Pittsfield, Me.	Paige, 7
Whippen, Elbert Wilder	<i>ab-bd</i> Kingston, N. H.	Paige, 13

Third Year

Cole, Alfred Storer	<i>bd</i> Buckfield, Me.	Paige, 19
Miller, Herbert Dwight	<i>bs-bd</i>	Paige, 3
Smith, Isaac	<i>bd</i> England	Paige, 27

Second Year

Baird, Arthur Earle	<i>bs-bd</i> So. Boston	Paige, 25
Hubon, Charles Wilson	<i>ab-bd</i> Salem	

First Year

Walker, Edgar Ruston	<i>bs-bd</i> Cambridge	140 Magazine St.
----------------------	------------------------	------------------

Special Students

Lawrence, Charles Norwood	Worcester	Paige, 13
Young, Gardner Lewis	Peabody	Paige, 12

Unclassified Student

Mills, George Grover	Boston	198 Clarendon St.
----------------------	--------	-------------------

Post-Graduate Student

Orito, Joseph Chusaku	Hokkaido, Japan	Paige, 30
<i>B.S., B.D., 1915</i>		

Supplementary List

(Students present during the second semester of 1915-16, but not appearing in the catalogue)

Colcord, Elmer Danforth	<i>bs-bd</i> Pittsfield, Me.	Paige, 7
-------------------------	------------------------------	----------

Jackson College for Women

Senior Class

Cochran, Margaret	<i>bs Medford</i>	34 Hancock St.
Cogswell, Almena	<i>ab Winchester</i>	Metcalf, 3
Crocker, Helen Beatrice	<i>bs Portland, Me.</i>	Metcalf, 4
Dean, Marjorie Grace	<i>bs Winthrop</i>	Alpha House, 1
Higgins, Helen Beatrice	<i>ab Andover</i>	Metcalf, A
Jameson, Helen Marion	<i>ab Brookline</i>	Metcalf, B
Mansfield, Nellie Birkenhead	<i>ab Everett</i>	Richardson, 9
Moody, Beulah Borden	<i>ab Chelsea</i>	Richardson, 3
Parshley, Esther	<i>ab Winchester</i>	Metcalf, 14
Pease, Dorothy	<i>ab Tufts College</i>	205 College Ave.
Raymenton, Marion Ward	<i>ab Cavendish Vt.</i>	Richardson, 8
Rowe, Helen Almira	<i>ab Winchester</i>	Richardson, 1
Simpson, Mildred Brooks	<i>bs Winthrop</i>	Metcalf, C
Wheet, Geneva Alice	<i>ab Bristol, N. H.</i>	Metcalf, C

Junior Class

Briggs, Katherine Emma	<i>ab W. Medford</i>	150 Arlington St.
Crosby, Genevieve	<i>ab Hingham</i>	Metcalf, 1
Danver, Anna Dorothea	<i>ab Glenbrook, Conn.</i>	Alpha House, 5
Davies, Jane Stodder	<i>ab Tufts College</i>	72 Professors Row
Deasy, Ella Marie	<i>ab Chelsea</i>	98 Grove St.
Durkee, Margaret	<i>ab Tufts College</i>	38 Professors Row
Glass, Ellen Melissa	<i>bs Lexington</i>	Concord Ave.
Lewis, Grace Melden	<i>ab W. Somerville</i>	44 Kidder Ave.
Morse, Laura Lucile	<i>ab Arlington</i>	41 Brantwood Rd.
Newcomb, Bertha May	<i>bs Portland, Me.</i>	Metcalf, 11
Nickerson, Muriel Nathalie	<i>ab Chelsea</i>	Richardson, 3
Perkins, Madeline Abby	<i>bs Lynn</i>	Metcalf, 8
Sargent, Elizabeth Tilton	<i>ab Winter Hill</i>	Alpha House, 4
Semons, Gladys Milford	<i>ab Manchester</i>	Metcalf, 16

Sophomore Class

Brooks, Ruth Elvira	<i>ab W. Medford</i>	40 Warren St.
Bullard, Cecelia	<i>ab W. Somerville</i>	21 Kidder Ave.
Cole, Ruth Jeanette	<i>ab Everett</i>	173 Broadway
Ferris, Julie Marguerite	<i>ab Medford</i>	15 Stoughton St.
Goldshine, Meriam	<i>bs Everett</i>	12 Bailey St.
Haynes, Gertrude May	<i>bs Maynard</i>	Metcalf, 2
Hill, Marion Calvin	<i>ab Dorchester</i>	5 Carmen St.
Hinckley, Hilda	<i>ab Hyannis</i>	Alpha House, 3

Hyland, Mildred Elizabeth	<i>ab</i>	<i>Everett</i>	Metcalf, 2
Joel, Edith Marion	<i>ab</i>	<i>Fitchburg</i>	Metcalf, 4
Little, Inga	<i>bs</i>	<i>Laconia, N. H.</i>	Metcalf, 7
Marland, Laura Northey	<i>ab</i>	<i>Ballard Vale</i>	Chester St.
McCoy, Dorothy Mary	<i>ab</i>	<i>Somerville</i>	62 Main St.
Miller, Elizabeth Stannard	<i>ab</i>	<i>Tworpton, Conn.</i>	Richardson, 4
Neal, Martha Catharine	<i>ab</i>	<i>Derry, N. H.</i>	Alpha House, 1
Perkins, Doris	<i>ab</i>	<i>Burlington</i>	
Rich, Mary Lindsey	<i>ab</i>	<i>N. Grosvenor Dale, Conn.</i>	Metcalf, 2
Richardson, Ethel Wheeler	<i>ab</i>	<i>Medford</i>	41 Royal St.
Sherburne, Grace Noerr	<i>ab</i>	<i>Melrose</i>	Alpha House, 6
Tasker, Lorna Bernay	<i>ab</i>	<i>Manchester, N. H.</i>	Gamma House, 2
Tillotson, Beulah Susie	<i>bs</i>	<i>Montpelier, Vt.</i>	55 High St., Everett
Wiltshire, Bertha May	<i>ab</i>	<i>Medford</i>	112 Dudley St.

Freshman Class

Balzer, Anita Elizabeth	<i>bs</i>	<i>Meriden Conn.</i>	Gamma House, 7
Bennett, Marion Ruby	<i>bs</i>	<i>Westbury, N. Y.</i>	56 Marshall St., Medford
Bernard, Madeline Elizabeth	<i>ab</i>	<i>Medford</i>	155 Jerome St.
Berry, Gertrude Wells	<i>ab</i>	<i>Andover</i>	Metcalf, 13
Brainard, Barbara Enola	<i>ab</i>	<i>Somerville</i>	82 Munroe St.
Brainard, Carolyn Lucie	<i>ab</i>	<i>Somerville</i>	82 Munroe St.
Bremner, Elsie Macdonald	<i>ab</i>	<i>W. Somerville</i>	17 Russell Rd.
Caverno, Elizabeth Sherman	<i>ab</i>	<i>Lowell</i>	Richardson, 6
Chilson, Grace Louise	<i>bs</i>	<i>Franklin</i>	Metcalf, 10
Clark, Emily Maud	<i>bs</i>	<i>Camp Hill, Ala.</i>	Richardson, 2
Clarke, Geraldine Kendall	<i>ab</i>	<i>Malone, N. Y.</i>	Metcalf, 14
Cunningham, Dorothea Patricia	<i>ab</i>	<i>Medford</i>	64 Magoun Ave.
Cushing, Irene	<i>bs</i>	<i>Bethel, Vt.</i>	Metcalf, 10
Davis, Marie Viola	<i>ab</i>	<i>Winchester</i>	59 Parkway
Faunce, Madeline Maria	<i>bs</i>	<i>Mattapan</i>	1407 Blue Hill Ave.
Gallagher, Dorothy	<i>bs</i>	<i>Dorchester</i>	Metcalf, 6
Glawson, Mildred Burton	<i>bs</i>	<i>Somerville</i>	Gamma House, 6
Grant, Mary Agnes	<i>ab</i>	<i>Beverly</i>	Gamma House, 3
Hannon, Martha Helen	<i>ab</i>	<i>Winter Hill</i>	108 Thurston St.
Higgins, Agnes Blanche	<i>ab</i>	<i>Andover</i>	Metcalf, 13
Hudgens, Helen Inez	<i>ab</i>	<i>Ipswich</i>	Gamma House, 8
Jerauld, Phyllis Eldredge	<i>ab</i>	<i>Barnstable</i>	Alpha House, 3
Kelley, Elfreda Alice	<i>ab</i>	<i>Marlboro, N. H.</i>	Gamma House, 9
Kimball, Margaret	<i>ab</i>	<i>Dorchester</i>	35 Moultrie St.
Knight, Irma Jeanneatte	<i>bs</i>	<i>Somerville</i>	175 Pearl St.
Lane, Rachel Perin	<i>ab</i>	<i>Cambridge</i>	Metcalf 9

Lewitzky, Esther Sara	<i>bs</i>	<i>Roxbury</i>	Gamma House, 1
Lynch, Margaret Esther	<i>bs</i>	<i>Salem</i>	Richardson, 5
MacDonald, Evelyn Frances	<i>bs</i>	<i>Chelsea</i>	49 William St.
Marston, Edna Gertrude	<i>ab</i>	<i>Somerville</i>	81 Liberty Ave.
Matheson, Orpha Barnard	<i>ab</i>	<i>Provincetown</i>	Richardson, 10
Moon, Dorothy	<i>bs</i>	<i>Chelsea</i>	Richardson, 4
Ohse, Amelia Elizabeth	<i>ab</i>	<i>Somerville</i>	5 Pearson Ave.
Parker, Madeline Lucille	<i>bs</i>	<i>Dorchester</i>	Richardson, 7
Partridge, Aphra Marion	<i>ab</i>	<i>West Medford</i>	105 Boston Ave.
Peirce, Marion Appleton	<i>ab</i>	<i>Arlington Heights</i>	11 Appleton St.
Perkins, Lillian Muriel	<i>ab</i>	<i>Medford Hillside</i>	12 Emery St.
Phillips, Marion Louise	<i>ab</i>	<i>Salem</i>	Metcalf, 7
Pigott, Madeleine Grace	<i>bs</i>	<i>N. Woburn</i>	19 Ward St.
Prager, Hortense Lucille	<i>bs</i>	<i>New York</i>	Metcalf, 15
Rankin, Virginia Davis	<i>ab</i>	<i>South Easton</i>	Metcalf, 15
Rathburn, Georgia Ruth	<i>ab</i>	<i>Marlborough</i>	Gamma House, 10
Reed, Madeline Winifred	<i>ab</i>	<i>Woodstock, Vt.</i>	
		71 Wallace St., W. Somerville	
Rockwell, Doris	<i>bs</i>	<i>Somerville</i>	133 Powder House Blvd.
Shaw, Dorothy	<i>bs</i>	<i>Marblehead</i>	Richardson, 5
Slaughter, Mary Frances	<i>ab</i>	<i>Camp Hill, Ala.</i>	Richardson, 2
Starks, Gertrude Ethel	<i>bs</i>	<i>Somerville</i>	99 Glenwood Rd.
Sundelöf, Karin Cecelia	<i>ab</i>	<i>Roxbury</i>	88 Moreland St.
Symmes, Marion Brooks	<i>bs</i>	<i>Winchester</i>	10 Winthrop St.
Trott, Marian Everson	<i>ab</i>	<i>Winchester</i>	Richardson, 11
Tucker, Dorothy Frances	<i>ab</i>	<i>New Dorp, N. Y.</i>	Richardson, 6
Walker, Adèle Elvira	<i>ab</i>	<i>Braintree</i>	33 Sherbrooke Ave.
Walker, Martha Doris	<i>bs</i>	<i>Newmarket, N. H.</i>	Gamma House, 4
Ware, Kennetha Marguerite	<i>bs</i>	<i>Tufts College</i>	101 Capen St.
Wilde, Doris	<i>ab</i>	<i>Fairhaven</i>	Alpha House, 7
Wonson, Isabelle	<i>bs</i>	<i>Fall River</i>	
		44 Liberty Ave., W. Somerville	
Worth, Isabella Frances	<i>bs</i>	<i>Nantucket</i>	Gamma House, 3
Yerrinton, Margaret Johnston	<i>ab</i>	<i>Arlington</i>	59 Jason St.

Unclassified Students

Connolly, Margaret Agnes	<i>bs</i>	<i>Chelsea</i>	220 Parkway
Lewis, Laura Wright	<i>ab</i>	<i>West Somerville</i>	44 Kidder Ave.
Robinson, Ruth Madaline	<i>ab</i>	<i>Worcester</i>	Metcalf, 12
Snow, Kathleyn Swift	<i>ab</i>	<i>Biddeford, Me.</i>	
Morse, Vena	<i>bs</i>	<i>York Village, Me.</i>	
		10 Oakland Ave., Arlington Heights	

Special Students

Adams, Mildred	<i>Rochester, Minn.</i>	Gamma House, 5
Chamberlain, Dorothy Dean	<i>Boston</i>	Richardson House

Supplementary List

(Students present during the second semester of 1915-16, but not appearing in the Catalogue.)

Perkins, Doris	<i>ab Burlington</i>
----------------	----------------------

Engineering School

Senior Class

Adelson, Louis	<i>ce</i>	<i>Chelsea</i>	Φ Ε Π House
Atkins, Arthur Randolph	<i>ce</i>	<i>Roslindale</i>	A T Ω House
Baldwin, Gilbert Edward	<i>ch e</i>	<i>Roxbury</i>	East, 25
Brown, Horton	<i>ee</i>	<i>Marblehead</i>	West, 22
Burbank, Colby Lewis	<i>ce</i>	<i>Revere</i>	Δ T Δ House
Connor, Bernard Dominic	<i>ce</i>	<i>Somerville</i>	East, 5
Davis, Chester Thomas Caverly	<i>st e</i>	<i>Wolfeboro, N. H.</i>	Φ Δ House
Earle, Chester Reed	<i>me</i>	<i>Lawrence</i>	Θ Δ X House
Foster, Elliot Chandler	<i>ch e</i>	<i>Medford</i>	Commons Club
Heileman, Calvin Marx	<i>st e</i>	<i>Plaistow, N. H.</i>	Σ T A House
Holmgren, Viking Raymond	<i>me</i>	<i>E. Lynn</i>	East, 5
Knowles, Mahlon Gilman	<i>me</i>	<i>Swampscott</i>	East, 3
Kraus, Benjamin Franklin	<i>me</i>	<i>Jamaica Plain</i>	West, 9
Merritt, Warren Franklin	<i>ce</i>	<i>Galveston, Tex.</i>	A T Ω House
Milliman, Frank Cooley	<i>st e</i>	<i>W. Somerville</i>	Δ T Δ House
Mortenson, Ernest Dawson	<i>ce</i>	<i>Bedford</i>	East, 1
Nichols, Byron Franklin	<i>me</i>	<i>Methuen</i>	East, 1
Ransom, Lake Smith	<i>st e</i>	<i>Longmont, Colo.</i>	29 Sawyer Ave.
Stowell, Edson Bancroft	<i>st e</i>	<i>Jamaica Plain</i>	A T Ω House
Terhune, Edward Andrus, Jr.	<i>st e</i>	<i>Dorchester</i>	Δ T House
Terry, Warren Franklin	<i>me</i>	<i>W. Somerville</i>	108 College Ave.
Wahlen, Frank Gustave	<i>me</i>	<i>Montpelier, Vt.</i>	East, 12

Junior Class

Aronson, Jesse Moses	<i>st e</i>	<i>Boston</i>	Φ Ε Π House
Bearse, Edwin Wilton	<i>ee</i>	<i>Somerville</i>	Commons Club
Briggs, Albert Jeffries	<i>me</i>	<i>Watertown</i>	Δ T House
Carr, Philip Amory	<i>ch e</i>	<i>Lawrence</i>	Commons Club
Clark, William Wells	<i>ce</i>	<i>Waltham</i>	East, 15
Cobb, Forrest Willard	<i>ch e</i>	<i>Waltham</i>	Δ T Δ House
Drummev, James Joseph	<i>ch e</i>	<i>Revere</i>	West, 11
Ferreira, Mizael Lemc	<i>ce</i>	<i>Braganca, Brazil</i>	47 Batavia St., Boston
Gallen, Francis Lawrence	<i>ce</i>	<i>Somerville</i>	600 Broadway
Highriter, Harry Walter	<i>ch e</i>	<i>Meriden, Conn.</i>	Z Ψ House
Hodgdon, Melvin Wyman	<i>me</i>	<i>Somerville</i>	8 Indiana Ave.
Kelly, John Louis	<i>ce</i>	<i>Arlington Heights</i>	32 Appleton St.
Leland, Harold Bickford	<i>ch e</i>	<i>Somerville</i>	Σ T A House
Loring, Warren Edward	<i>ce</i>	<i>Charlestown</i>	9 Cedar St.
McCarthy, John Joseph, Jr.	<i>ch e</i>	<i>Somerville</i>	220 Summer St.

McCarthy, John Michael, Jr.	<i>ce</i>	<i>Natick</i>	East, 28
MacDonald, Norman Duncan	<i>ce</i>	<i>Melrose</i>	58 Howard St.
Mitchie, George Arthur	<i>me</i>	<i>Lexington</i>	Φ Δ House
Moore, Ronald Roberts	<i>ce</i>	<i>W. Somerville</i>	1 Kenwood St.
Nash, James Francis	<i>ch e</i>	<i>E. Bridgewater</i>	Z T House
Nichols, Alfred Richard	<i>me</i>	<i>Dorchester</i>	Z Δ House
Norton, Edward Howd	<i>ch e</i>	<i>N. Westchester, Conn.</i>	Δ T House
O'Marra, Frank Joseph	<i>ee</i>	<i>Kingston, N. Y.</i>	Θ Δ X House
Porter, Leo Augustus	<i>st e</i>	<i>Stoughton</i>	A T Ω House
Powers, Harvey Marcellus	<i>me</i>	<i>Hollis, N. H.</i>	Θ Δ X House
Rice, Harold De Blois	<i>ch e</i>	<i>Somerville</i>	Σ T A House
Russell, Herbert Burgoyne	<i>st e</i>	<i>Jamaica Plain</i>	A T Ω House
Segal, David	<i>ch e</i>	<i>Roxbury</i>	Φ E Π House
Smith, Christopher Ilsley	<i>ee</i>	<i>Chatham</i>	Σ T A House
Spaulding, Paul Pickering	<i>st e</i>	<i>Dorchester</i>	Σ T A House
Swanson, George Swen	<i>me</i>	<i>Dorchester</i>	Σ T A House
Tentler, Lewis Aaron	<i>ee</i>	<i>Dorchester</i>	Σ T A House
Waghorne, Charles Albert	<i>ce</i>	<i>Melrose</i>	Commons Club
Wainwright, Stuart Frederick	<i>ce</i>	<i>Andover</i>	Paige, 29
Waite, Clayton Byron	<i>ce</i>	<i>Fort Ann, N. Y.</i>	187 College Ave.
Waldo, Hollis Thurlow	<i>me</i>	<i>Groveland</i>	Commons Club
Walker, William Edward	<i>ch e</i>	<i>Orange</i>	A T Ω House
Walters, James Willard	<i>ee</i>	<i>Washington, D. C.</i>	Dean, 13
Waters, Mendal	<i>ce</i>	<i>Roxbury</i>	Φ E Π House

Sophomore Class

Abbott, Robinson	<i>Malden</i>	Commons Club
Baker, Edwin Davis Jr.,	<i>Melrose</i>	Commons Club
Baker, Theodore Edward	<i>W. Somerville</i>	20 Grove St.
Bickford, Jason Frederick	<i>Somerville</i>	West, 6
Bloom, Wolfred George	<i>Lynn</i>	13 Carleton St.
Bronski, Leo Max	<i>Dorchester</i>	Φ E Π House
Bullard, Walter Dudley	<i>Dorchester</i>	East, 14
Clough, Woodman Walter	<i>Stoneham</i>	66 Wright St.
Cogswell, Burnham	<i>Essex</i>	East, 17
Davis, Daniel Louis	<i>Kendal Green</i>	East, 20
Davis, Edward Harrington	<i>Saugus</i>	11 Taylor St.
DeFoe, Joseph Harry	<i>Chelsea</i>	105 Library St.
Derby, Charles Howard	<i>Peabody</i>	West, 3
Dewey, Edson Eugene	<i>Brookline</i>	8 Cypress Place
Entwistle, Guy Russell	<i>Tufts College</i>	21 University Ave.
Finnell, Norman Croft	<i>Cambridge</i>	66 Wendell St.
Ford, Horace Hills	<i>W. Somerville</i>	58 Bromfield Rd.

Gallagher, Frank Joseph	<i>Somerville</i>	<i>81 Benton Rd.</i>
Harris, Richard Treat	<i>Norwalk, Conn.</i>	ΔT House
Hawker, Leslie Ward	<i>Wheeling, W. Va.</i>	West, 8
Hayward, Ernest Lincoln	<i>Arlington</i>	East, 2
Higgins, Elliot Wight	<i>Dover</i>	$\Phi \Delta$ House
Horenstein, Alexander	<i>Tientsin, China</i>	$\Phi E \Pi$ House
Hudson, Abel Clifford	<i>Auburn, N. Y.</i>	East, 2
Hunnewell, Roger	<i>Somerville</i>	$\Theta \Delta X$ House
Kimball, Harold Francis	<i>Arlington</i>	<i>129 Broadway</i>
Kneeland, Frank Coleman	<i>Waban</i>	<i>1249 Beacon St.</i>
Judd, Rolland Frederick	<i>Allston</i>	West, 6
Lincoln, Frank William, Jr.	<i>Somerville</i>	<i>45 Oliver St.</i>
Lovejoy, Julian	<i>Littleton</i>	Dean, 7
MacOnie, George Watson	<i>Tufts College</i>	Commons Club
Marshall, Irving Davis	<i>Everett</i>	<i>71 Summer St.</i>
Moodie, William Carmichael	<i>Jewett City, Conn.</i>	ΔT House
Parnell, Eric	<i>Medford</i>	Commons Club
Pennucci, Alexander	<i>East Boston</i>	<i>75 Neptune Rd.</i>
Philpott, Herbert Charles	<i>Arlington</i>	<i>285 Mass. Ave.</i>
Pinkham, Harold Lloyd	<i>West Medford</i>	<i>69 Sagamore Ave.</i>
Piper, Arthur Maine	<i>Medford Hillside</i>	<i>312 Boston Ave.</i>
Porter, Arthur Bray	<i>Salem</i>	$A T \Omega$ House
Reynolds, Kenneth Cass	<i>W. Somerville</i>	<i>231 Morrison Ave.</i>
Rich, Richard Augustus, Jr.	<i>Truro</i>	East, 10
Rosenthal, Edward	<i>Chelsea</i>	<i>119 Franklin Ave.</i>
Scarlett, William Alfred	<i>Lynn</i>	<i>37 Lake Ave.</i>
Shepherd, Harold Nichols	<i>Lynn</i>	West, 6
Stiles, William Harvey	<i>Sudbury</i>	East, 10
Walsh, James Henry	<i>Somerville</i>	<i>122 Prospect St.</i>
Woodill, Harold William	<i>Melrose</i>	Commons Club
Zulalian, Badrig Barsam	<i>Boston</i>	<i>16 Waltham St.</i>

Freshman Class

Adams, Walter Leslie	<i>Milford</i>	West, 29
Andersen, George	<i>Medford</i>	<i>128 Sheridan Ave.</i>
Ashton, Henry Clark	<i>Somerville</i>	<i>33 Columbus Ave.</i>
Baker, David A.	<i>Boston</i>	<i>42 Genesee St.</i>
Baker, Samuel	<i>W. Somerville</i>	<i>33 Bay State Ave.</i>
Barrow, William Beasor, Jr.	<i>Birmingham, Ala.</i>	East, 8
Benson, Henry Wilhelm	<i>West Somerville</i>	<i>6 Boston Ave.</i>
Besse, Harry William	<i>Wareham</i>	East, 20
Boyle, James Joseph	<i>Dorchester</i>	<i>48 West Tremlett St.</i>
Bradley, Robert Ivan	<i>N. Weymouth</i>	<i>4 Shore Drive</i>

Brady, Albert Francis
 Brainerd, Edward Wendell
 Brothers, George William
 Chernaik, Myer Joseph
 Clarke, John Haggett
 Coffin, Arthur Alfred
 Cole, Russell Eliot
 Conn, Franklin Earle
 Cook, William Alfred
 Crosby, Edwin Winslow
 de Faria, Joas Jorge
 Delaney, J. Frank
 Demirjian, Nash Manook
 Dolton, Raymond William
 Doucet, Wm. Henry
 Dunham, John Wetherbee

 Ewell, Robert Manning
 Farrell, Roger Wendell
 Finnegan, George Henry
 French, Clarence Bates
 Gifford, Frederick Anthony
 Gillmore, Reginald Waldo
 Ginsberg, Joseph Charles
 Gladu, Francis Raymond
 Graves, Herbert Cornelius
 Gray, Lewis Oscar
 Green, Richard Winthrop
 Hartwell, Warren Emerson
 Hastings, Raymond George
 Haworth, Richard
 Heald, Harold Francis
 Herald, Charles Raymond
 Hobbs, Edwin
 Jorgensen, William
 Kagan, Maurice
 Kelley, Thomas Urban
 Knight, Hugh Chatfield
 Lagergren, Berthel Ludvig
 Libman, Harry
 Logan, Ross Wendell
 London, Harry
 MacCharles, Howard Kenneth

Charlestown 50 Pleasant St.
Dorchester 13 Upland Ave.
Hudson West, 11
East Boston 159 Chelsea St.
Somerville 35 Montrose St.
Chelsea 4 Murray St.
Somerville 22 Edmands St.
Auburndale West, 1
Littleton West, 14
West Medford 52 Monument St.
Brazil 28 Dearborn Rd., Medford
Dorchester 19 Hewins St.
Newton Centre 67 Union St.
Lynn 154 Tracy Ave.
Wakefield 37 Bennett St.
W. Somerville
 120 Powder House Blvd.
Medford 136 Washington St.
Cochituate Pond St.
Stoneham 11 Dean St.
Waltham East, 15
Woburn 25 Lawrence St.
N. Weymouth 46 Squanto Rd.
East Boston 33 Decatur St.
Cochituate Stanton St.
Washington, D. C. East, 8
Saugus 18 Emory St.
Winthrop East, 28
Littleton Dean, 7
Weston
Dorchester Δ T Δ House
Somerville 171 Powder House Blvd.
Everett A T Ω House
Everett West, 19
Roslindale 335 Walk Hill St.
Boston 77A Revere St.
Revere 25 Summer St.
Melrose Highlands 132 Melrose St.
Osterville West, 13
Dorchester 1 Page St.
Waverley 570 Trapelo Rd.
Dorchester Φ E Π House
Peabody Commons Club

Macdonald, Donald Lewis	<i>W. Somerville</i>	72 Bristol Rd.
MacIlvain, Karl Messenger	<i>Jamaica Plain</i>	Dean, 3
Marshall, Donald Leslie	<i>W. Somerville</i>	11 Bay State Ave.
McAuley, Raymond Hellery	<i>W. Somerville</i>	35 Lowden Ave.
McGee, Harry Shirl	<i>S. Chicago, Ill.</i>	East, 6
McNamee, Arthur Edward	<i>Waverley</i>	East, 16
Merrill, Carl Bixby	<i>Medford</i>	99 Park St.
Mitsch, John Donald	<i>Mattapan</i>	10 Hazleton St.
Mitsui, Takamichi	<i>New York, N. Y.</i>	Paige, 36
Mohan, John Patrick	<i>Lynn</i>	51 Mall St.
Morgan, Carl Leon	<i>Wolfboro N. H.</i>	Φ Δ House
Morse, Arthur Lewis	<i>Watertown</i>	Commons Club
Moses, Howard Leslie	<i>W. Somerville</i>	50 Meacham Rd.
Pearlmutter, Hyman	<i>Allston</i>	4 Everett Sq.
Peterson, George Harry	<i>Woburn</i>	50 Lake Ave.
Pollard, James Joseph, Jr.,	<i>W. Somerville</i>	1091 Broadway
Porter, Harold Hill	<i>Salem</i>	East, 13
Pride, Alfred Melville	<i>Somerville</i>	150 Hudson St.
Purinton, Norman Wilson	<i>Everett</i>	19 Hampshire St.
Ratti, Augustus Peter	<i>W. Everett</i>	179 Bucknam St.
Riley, Albert Joseph Germond	<i>Chelsea</i>	61 Bellingham St.
Roberts, Edward Bird	<i>Hyde Park</i>	
		53 Chandler St., W. Somerville
Robertson, Warren Madison	<i>Revere</i>	42 Page St.
Rockwell, Donald Edward	<i>W. Somerville</i>	
		133 Powder House Boulevard
Rockwell, Walter Francis	<i>Dorchester</i>	West, 21
Ryan, Harold Lyman	<i>Rio de Janeiro, Brazil, S. A.</i>	
		Σ T A House
Sabine, Edward Dana, Jr.,	<i>Yonkers, N. Y.</i>	East, 19
Scarlett, Edward George	<i>Lynn</i>	Commons Club
Shoolman, Dave Leveton	<i>Malden</i>	Φ Ε Π House
Simanofsky, Louis	<i>Portland, Me.</i>	
		21 Middlesex St., Boston
Sparrow, Valentine Zens	<i>Malden</i>	435 Eastern Ave.
Sproviero, Frank Joseph	<i>Stamford, Ct.</i>	80 Myrtle St., Boston
Sullivan, Francis Daniel	<i>S. Boston</i>	56 N St.
Tibbetts, Frank Alliston	<i>W. Somerville</i>	223 Morrison Ave.
Turner, Alfred Edward	<i>Auburn, N. Y.</i>	West, 31
Waage, John Charles Jr.	<i>Arlington</i>	16 Central St.
Wallace, Merrill Gregory	<i>W. Somerville</i>	83 Irving St.
Waugh, Harry Edgar	<i>Somerville</i>	1 Lexington Ave.
Wiegand, Joseph Nicholas	<i>Armington, Mont.</i>	East, 7

Wilson, Edmund Geddes	<i>Dorchester</i>	<i>3 Grant Road</i>
Wilson, Harold Olmi	<i>New York</i>	<i>East, 19</i>
Wolk, Louis	<i>Malden</i>	<i>37 Magnolia St.</i>

Unclassified Students

Fellows, Richard Charles	<i>West Somerville</i>	<i>771 Broadway</i>
Leseur, Charles Benjamin	<i>Hyde Park</i>	<i>Dean, 5</i>
Maker, Charles Gilbert	<i>Fall River</i>	<i>East, 9</i>
Palmer, Ralph Buel	<i>Lowell</i>	<i>West, 21</i>
Spencer, Edward	<i>Boston</i>	<i>97 St. Stephen St.</i>
Rafferty, John Herbert Joseph	<i>Cambridge</i>	<i>341 Columbia St.</i>
Rosenauer, Moses Bernard	<i>Somerville</i>	<i>100 Pearson Ave.</i>
White, Wallace Tirrell	<i>N. Attleboro</i>	

Special Student

Gray, Thomas Francis	<i>W. Somerville</i>	<i>West, 25</i>
----------------------	----------------------	-----------------

Supplementary List

(Students present during the second semester of 1915-16, but not appearing in the catalogue.)

Sparrow, Valentine Zens	<i>Malden</i>	<i>435 Eastern Ave.</i>
Voss, William Charles	<i>Hartford, Conn.</i>	<i>East, 21</i>

Bromfield-Pearson School

Baker, David Joseph	<i>Boston</i>	<i>83 Poplar St.</i>
Bauch, Charles Everett	<i>Ashmont</i>	<i>3 Clemont St.</i>
Bond, Raymond Linscott	<i>Revere</i>	<i>74 Beach St.</i>
Booth, Thomas Eugene	<i>East Boston</i>	<i>160 Leyden St.</i>
Brown, Harold Edward	<i>Worcester</i>	<i>733 Columbia Rd.</i>
Burnside, Howard Leroy	<i>Everett</i>	<i>16 Everett St.</i>
Burton, Halbert Grant	<i>Cambridge</i>	<i>3 Walker St. Place</i>
Casey, Edward	<i>Boston</i>	<i>25 Concord Sq.</i>
Casson, Kenneth Hodgson	<i>Roslindale</i>	<i>East, 9</i>
Delano, Edward Clyde	<i>Fall River</i>	<i>East, 32</i>
Downing, Chester Gustavus	<i>Revere</i>	<i>1 Oliver Ter.</i>
Foran, Frederic	<i>New Haven, Conn.</i>	<i>West, 30</i>
Goldstein, Philip Fred	<i>Revere</i>	<i>114 Shirley Ave.</i>
Lally, Francis Shedd	<i>Dorchester</i>	<i>53 Olney St.</i>

Merrill, Donald Hersey	Cambridge	60 Walker St.
Morash, Arthur Fenwick	Arlington	27 Fairmont St.
Ratta, James Albert, Jr.,	W. Medford	13 Holton St.
Spear, Henry Thompson	Nashua, N. H.	West, 1
Stuart, Henry Alfred	W. Somerville	100 Pearson Rd.
Summerville, Alan Oliver	Roslindale	109 Walter St.
Tilton, Warner Belknap	Raymond, N. H.	
Walsh, Joseph Patrick	Somerville	122 Prospect St.

Graduate School

Resident Students

FOSTER, FRANCIS JOEL	Danbury, Conn.	Paige, 15
<i>A.B., 1916 History and Public Law and Political Science</i>		
HASKELL, RUTH SIBLEY	Brookline	22 Garrison Rd.
<i>A.B., 1906 Second Year History and Public Law</i>		
HAYWARD, ELEANOR		Metcalf Hall
<i>B.S., 1915 (Simmons) First Year Political Science</i>		
LAMONT, RICHARD ROY	W. Somerville	76 Maple St., Malden
<i>A.B., 1912 Second Year Music and Modern Languages</i>		

Special Student

ORITO, JOSEPH CHUSAKU	Hokkaido, Japan	Paige, 30
<i>B.S., 1915 Philosophy</i>		

Non-Resident Students

CHENEY, GENEVIEVE HENRIETTA	Mt. Vernon, N. Y.	25 Park Ave.
<i>A.B., 1906 First Year French</i>		
LYBECK, ROBERT FERDINAND	Everett	36 Highland Ave.
<i>B.S., 1915 First Year Chemistry</i>		

One-Year Pre-Medical Course

[P. O. Address, 28 Mechanics Street, Boston, Mass.]

Abel, Frederick Louis	<i>South Weymouth</i>
Adelman, Harold Louis	<i>Roxbury</i>
Allen, Frank Alexander Ross	<i>Lonsdale, R. I.</i>
Barritt, Robert James	<i>Hamilton, Bermuda</i>
Barron, David	<i>Brockton</i>
Baxter, George Raymond	<i>St. John, N. B.</i>
Benaglia, Carl Peter	<i>Worcester</i>
Berkowitz, Arthur	<i>Roxbury</i>
Berman, David	<i>Boston</i>
Biddle, Stephen Mulford	<i>Thornton, N. H.</i>
Blair, Jesse Benjamin	<i>Jacksonville, Fla.</i>
Block, Harry	<i>Boston</i>
Bloom, Abraham	<i>Boston</i>
Bousquet, Franklyn Philip	<i>Worcester</i>
Bradshaw, George Lane	<i>Lawrence</i>
Breslin, James Edward	<i>Providence, R. I.</i>
Bunnell, Stuart Dyer	<i>Revere</i>
Burns, Leo James	<i>Milford</i>
Burr, Elsie Parkinson	<i>Boston</i>
Caldarone, Angelo	<i>Providence, R. I.</i>
Caldicott, George Francis	<i>Milford</i>
Carter, John Adams	<i>Cliftondale</i>
Chandlee, Gertrude Jackson	<i>Philadelphia, Penna.</i>
Chapnick, Maurice Max	<i>New Haven, Conn.</i>
Chilson, George Robert	<i>North Adams</i>
Clark, Omar Lawrence	<i>South Acton</i>
Cody, John Michael	<i>Peabody</i>
Cohen, Julius William	<i>Dorchester</i>
Coleman, Robert Martin	<i>Wellesley</i>
Collinson, Arthur William	<i>Greenwood</i>
Conlon, George Avery	<i>Hyde Park</i>
Conlon, Leo Vincent	<i>Millville</i>
Conroy, Augustine Edward	<i>Andover</i>
Cook, Robert Louis	<i>Brookline</i>
Cronin, Edward Joseph	<i>Haverhill</i>
Curtin, James Henry, Jr.	<i>Somerville</i>
Davis, Thomas Francis	<i>Brighton</i>

Dee, William John	<i>South Boston</i>
Derrick, Leonard Stanley	<i>Brookline</i>
Dewing, Norman	<i>Boston</i>
Dowd, Aloysius Francis	<i>Manchester, N. H.</i>
Dressler, Morris Lawrence	<i>Springfield</i>
Easterling, Ruth Marguerite	<i>North Cambridge</i>
Favaloro, John	<i>Lynn</i>
Federkiewicz, John	<i>Boston</i>
Feingold, Ephraim	<i>Worcester</i>
Fielding, Bennett Irving	<i>Worcester</i>
Fishelson, Fanny Beatrice	<i>Roxbury</i>
Fulstow, Marjorie, A.B. (Lake Erie College)	<i>Norwalk, Ohio</i>
Gaber, Nathan	<i>Boston</i>
Gagnon, Alphonse Paul	<i>Fall River</i>
Gagnon, Mabel Marie	<i>Livermore Falls, Me.</i>
Gibson, David Howard	<i>Cambridge</i>
Gilpatrick, James Matthews	<i>South Berwick, Me.</i>
Givan, James Alexander	<i>Somerville</i>
Glebow, Eleanor	<i>Jamaica Plain</i>
Glickman, Alfred Myron	<i>Springfield</i>
Goldstein, Henry	<i>Roxbury</i>
Goodman, David Solomon	<i>Chelsea</i>
Gordon, Samuel Morris	<i>Boston</i>
Gorshel, David Herman	<i>Roxbury</i>
Grandfield, Robert Francis	<i>Dorchester</i>
Griffin, Charles Henry	<i>Fall River</i>
Grogan, Michael Joseph	<i>Marlboro</i>
Grumley, Martin Edward	<i>Boston</i>
Haroutunian, Garabed	<i>Chelsea</i>
Harris, Paul Leon	<i>Lowell</i>
Hartigan, John Joseph	<i>Andover</i>
Hauman, Ralph Nathan	<i>Revere</i>
Hazen, Bernice Merriam	<i>Manchester, N. H.</i>
Hemenway, Ruth Victoria	<i>Williamsburg</i>
Higgins, Ernest Russell	<i>Milton</i>
Hinchey, Richard James	<i>Haverhill</i>
Hogan, Charles Henry, Jr.	<i>Salem</i>
Hooper, Raymond Ernest	<i>Mavnard</i>
Howe, Paul French	<i>Princeton</i>
Jasspon, Moses Bernard	<i>Savannah, Ga.</i>
Johnson, Alphonsus Warren	<i>Brookline</i>
Johnson, Valeria Berenice	<i>Boston</i>
Josselson, Israel	<i>Portland, Me.</i>

Kelly, Earl Francis	<i>Pawtucket, R. I.</i>
Kontoff, Henry Arthur	<i>Dorchester</i>
Kreplick, Morris Spellman	<i>Boston</i>
Lanigan, William Nicholas	<i>Marlboro</i>
Laserson, Joseph	<i>Roxbury</i>
Leavitt, George David	<i>Boston</i>
Lefort, Gerald Adrian	<i>Taunton</i>
Levine, Elijah Louis	<i>Lynn</i>
Lezberg, Joseph	<i>Boston</i>
Listernick, Sidney Solomon	<i>Everett</i>
Locke, Sophie	<i>Arlington Heights</i>
Lombardi, Pasquale Frederick	<i>Boston</i>
Lyen, Charles Lewis	<i>Everett, Washington</i>
MacDonald, Ralph Reed	<i>Burlington</i>
Mackler, David Abram	<i>New Bedford</i>
Marchand, Jean Charles	<i>Salem</i>
Matzek, Neil Clayton	<i>Revere</i>
McCarthy, Francis Wesley	<i>Roxbury</i>
McGrath, Laurence Wilfred	<i>Roxbury</i>
McKeough, Wilfred Aloysius	<i>Boston</i>
McQuade, Frank Joseph	<i>Manchester, N. H.</i>
McQuade, Thomas Henry	<i>Providence, R. I.</i>
Melvin, Edward Gerald	<i>Pawtucket, R. I.</i>
Merriam, Joseph Chapman, A.B. (Harvard Univ.)	<i>Framingham</i>
Mezer, Joseph Henry	<i>Boston</i>
Minah, Franklin James	<i>Franklin, N. H.</i>
Mitchell, Isadore	<i>Brockton</i>
Montanaro, Austin	<i>Boston</i>
Moulton, Lillian Gertrude	<i>Medford</i>
Murphy, Arthur John	<i>Peabody</i>
Ney, Thomas Joseph	<i>Providence, R. I.</i>
Nichols, Brayton, A.B. (Harvard Univ.) . . .	<i>Worcester</i>
Normandin, Marguerite Alice	<i>Laconia, N. H.</i>
Novack, Hyman Allen	<i>Dorchester</i>
O'Connell, William Henry Foster	<i>Bridgeport, Conn.</i>
Olim, Jacob Joseph	<i>South Boston</i>
Orismondo, Carlo Altobelli	<i>Jamaica Plain</i>
Orr, Charles Waldron	<i>Revere</i>
Paquette, Charles Albanie	<i>Pascoag, R. I.</i>
Parker, George Leonard	<i>Clinton</i>
Paul, Mary	<i>East Boston</i>
Peck, Albert Luther	<i>Spencer</i>
Petrillo, Carmen Ralph	<i>Boston</i>

Pollack, Bernard	<i>Boston</i>
Portnoy, Maurice	<i>New Bedford</i>
Power, Arthur Chester	<i>South Boston</i>
Rainville, Rosario George	<i>Brockton</i>
Riendeau, Fernand Maurice	<i>Worcester</i>
Ross, Florence Mirick	<i>Dorchester</i>
Ryan, James Patrick	<i>Salem</i>
Sala, Ralph della	<i>Chelsea</i>
Seliber, Samuel Harold	<i>Boston</i>
Shea, Daniel William	<i>Bellows Falls, Vt.</i>
Siegel, Louis	<i>Revere</i>
Sigourney, David Rives, A.B. (Harvard Univ.)	<i>Boston</i>
Silbert, Harry	<i>Chelsea</i>
Silvernail, Raymond Warren	<i>Salem</i>
Skvirsky, Solomon Louis	<i>Springfield</i>
Soforenko, Harry	<i>Providence, R. I.</i>
Spaulding, Earle Everett	<i>Lowell</i>
Spiva, Charles	<i>Providence, R. I.</i>
Springer, Ernest	<i>Boston</i>
Stochaj, John William	<i>Webster</i>
Sullivan, Harold Albert	<i>Maynard</i>
Sullivan, Jeremiah Vincent	<i>Fall River</i>
Sweeley, Crawford Kenneth	<i>West Somerville</i>
Tartakoff, Samuel	<i>West Stoughton</i>
Thompson, James Allan	<i>North Hanover</i>
Tirk, Henry Saul	<i>Boston</i>
Tober, Jacob Benjamin	<i>Springfield</i>
Walsh, John Francis	<i>Salem</i>
Watman, Anthony Joseph	<i>Lynn</i>
Williams, John Francis	<i>Dorchester</i>
Young, Ernest Thomas	<i>Boston</i>
Yunitz, John, Jr.	<i>Everett</i>

Medical School

[P. O. Address, 416 Huntington Ave., Boston, Mass.]

Fourth Year

(To graduate in June, 1917)

Adams, Edward Augustus	<i>Fitchburg</i>
Ash, Richard Maurice	<i>West Quincy</i>
Atkinson, Frederick Charles	<i>Methuen</i>
Banquer, Jacob Ellis	<i>Dorchester</i>
Bolotow, Nathan Abraham	<i>Lonsdale, R. I.</i>
Bridgwood, David	<i>Brockton</i>
Brown, Abe Arthur	<i>Lawrence</i>
Brown, Henry Seabury	<i>Providence, R. I.</i>
Budreski, Alphonse Frank	<i>Brockton</i>
Caruso, Septimio	<i>Roslindale</i>
Casey, Chester Arthur	<i>Ironton, Ohio</i>
Cassidy, Franklin Chester	<i>Medford</i>
Chisholm, Lawrence Chesley	<i>Salem</i>
Churchill, Anna Quincy	<i>Dorchester</i>
A.B. (Smith College), A.M. (Radcliffe College)	
Clark, Millard Cressey	<i>Bethlehem, N. H.</i>
Corea, George Thomas	<i>Boston</i>
Crichton, Andrew John, Jr., A.B. (Trinity Coll.)	<i>East Hartford, Conn.</i>
Crimmin, Leo Philip	<i>Brockton</i>
Cunha, Manuel Felix	<i>Somerville</i>
Curran, Louis Frederic	<i>Fall River</i>
Currie, Inez Margaret	<i>Needham</i>
Dennett, Paul Carroll	<i>Portsmouth, N. H.</i>
Doucet, Charles Stanislaus	<i>Manchester, N. H.</i>
Duffy, Edward Anthony	<i>Worcester</i>
Fitzgibbons, Patrick Joseph	<i>Amsterdam, N. Y.</i>
Fowler, Alma Evelyn	<i>Boston</i>
French, Leland Malcom	<i>Worcester</i>
Friederman, Elie Louis	<i>Boston</i>
Gallagher, Henry Joseph	<i>Providence, R. I.</i>
Goddard, Fred Chambers	<i>Dover, N. H.</i>
Gordon, Louis	<i>Boston</i>
Greenwood, Wilbourt Edward	<i>Riverside, R. I.</i>
Hamburg, Miles Myer	<i>Everett</i>

Hanlon, Morgan Patrick	<i>East Cambridge</i>
Hart, Louis Park	<i>Marlboro</i>
Haskins, Abraham	<i>Revere</i>
Heffernan, Roy Joseph	<i>Somerville</i>
Hekimian, Jacob Hagop	<i>East Weymouth</i>
Hoffman, Morris	<i>Boston</i>
Hooper, Anne Leslie, A.B. (Jackson College)	<i>Tufts College</i>
Hopkins, Lawrence Towle	<i>Somerville</i>
Howard, Rhoda Letitia	<i>Troy, N. Y.</i>
Jackson, Howard LaFayette	<i>Wells Bridge, N. Y.</i>
Johnson, Lewis Wells	<i>Greenfield</i>
Joslin, Royal Knight	<i>Worcester</i>
Kable, Josephine Downie	<i>York, Penna.</i>
Kaufman, Morris Frank	<i>Boston</i>
Kirby, James Caleb	<i>Salem</i>
Lipchut, Charles Saul	<i>New Bedford</i>
Loewe, Walter Ralph	<i>Dorchester</i>
Logiodice, Leonard Francis	<i>South Boston</i>
Long, Rufus Wilfred	<i>Manchester</i>
MacCordy, Earl Cunningham	<i>Amsterdam, N. Y.</i>
Macmillan, Alexander Stewart	<i>Boston</i>
McDonald, Harry Leo	<i>Attleboro</i>
McKay, Hugh Gordon	<i>Howland, Me.</i>
Medalia, David Bernard	<i>Dorchester</i>
Meledy, Joseph Aloysius	<i>Providence, R. I.</i>
Merritt, Edward Lester	<i>Fall River</i>
Merritt, Robert Elmer	<i>Wollaston</i>
Mills, Parker	<i>Lynn</i>
Murphy, James Moore	<i>Norwich, Conn.</i>
O'Connell, John Gabriel	<i>Bridgeport, Conn.</i>
O'Neill, Elizabeth Veronica	<i>Mattapan</i>
Pettengill, Warren Martin	<i>Haverhill</i>
Rathey, Arthur Andrew	<i>Lawrence</i>
Ring, Arthur Joseph	<i>Lynn</i>
Rosenkovitz, Edward	<i>Revere</i>
Rudman, Benjamin William	<i>Roxbury</i>
Salmon, Charles Augustus	<i>Worcester</i>
Sarno, Avery Hugo	<i>Amsterdam, N. Y.</i>
Schæfer, Jacob	<i>New Britain, Conn.</i>
Segal, Samuel, Jr.	<i>Haverhill</i>
Simons, Sigmund	<i>Pawtucket, R. I.</i>
Slater, Robert	<i>Boston</i>
Smith, Lillian Richardson	<i>Lawrence</i>

Solomon, Sidney	<i>Revere</i>
Story, Theodore LeRoy	<i>Hartford, Conn.</i>
Street, Russell Barber	<i>Suffield, Conn.</i>
Van Deusen, Wesley Allter	<i>St. Johnsville, N. Y.</i>
Ward, John Clement	<i>Marlboro</i>
Ward, John Joseph	<i>St. Johnstown, N. Y.</i>
Warner, Helen Thompson	<i>Seymour, Conn.</i>
Wiley, Walter Brown, Jr.	<i>Bangor, Me.</i>
Wood, William Franklin	<i>Richmond Hill, N. Y.</i>
M.D. (New York Homeopathic and Flower Hospital)	
Wyman, Thomas Clark	<i>Portland, Me.</i>
Zonn, Seymour Israel	<i>Malden</i>

Third Year

(To graduate in June, 1918)

Ahern, John Francis,	<i>Dorchester</i>
M.D. (College of Physicians and Surgeons)	
Armstrong, Irving Foster	<i>Marlboro</i>
Atkinson, Roderick Melville	<i>Boston</i>
Bell, Raymond Gernand	<i>Auburn, N. Y.</i>
Bowman, Edward Francis	<i>Boston</i>
Brown, Joseph Lucien	<i>Gadsden, Ala.</i>
Burke, Edward Francis, Ph.G. (Columbia Univ.)	<i>Providence, R. I.</i>
Cleveland, Harold Frank,	<i>Cambridge, N. Y.</i>
Ph.G., (Albany College of Pharm.)	
Cliff, Frederica Leigh (A.B., Radcliffe Coll.)	<i>Boston</i>
Cohen, Newman	<i>Dorchester</i>
Colton, Hubert Porter	<i>Dorchester</i>
Condric, James Francis	<i>Weymouth</i>
Cranz, Alwin Henry	<i>Boston</i>
Cunningham, Thomas Patrick	<i>Pascoag, R. I.</i>
Currier, Donald Estes	<i>Brookline</i>
Dahlen, Carl Albert	<i>Roxbury</i>
David, Jesse Mirza	<i>Chicago, Ill.</i>
Delaney, William Joseph	<i>Marlboro</i>
Dunphy, Pierce James, A.B. (Holy Cross Coll.)	<i>Boston</i>
Emard, George Adelbert	<i>Mansfield</i>
Ph.C. (Mass. Coll. Pharm.), Pharm.D. (Mass. Coll. Pharm.)	
Feldman, Aaron	<i>Boston</i>
Ganley, Edward Henry	<i>Methuen</i>
Gately, George Lynde	<i>Melrose</i>
Ginn, Robert Leicester	<i>West Harwich</i>
Goldman, Edward	<i>Boston</i>
Goldman, Harry	<i>Roxbury</i>

Golini, Carlotta Nicholas	<i>Providence, R. I.</i>
Gordon, John Hurter, B.A. (Univ. of South)	<i>Washington, D. C.</i>
Grandison, Louis Julian	<i>Charlestown</i>
Greenberg, Boris Efim	<i>Dorchester</i>
Gurjian, Leon Kevork	<i>Worcester</i>
Harris, Walter Callahan	<i>Millbury</i>
A.B. (Holy Cross Coll.)	
Hatt, Rafe Nelson	<i>West Paris, Me.</i>
Hillberry, Maud Eva	<i>Blue River, Wis.</i>
Hook, Marion	<i>St. Leonards-on-Sea, England</i>
Israel, Joseph Gilbert	<i>Fitchburg</i>
Jankelson, Isaac Rudolph	<i>Roxbury</i>
Keefe, Frank Joseph	<i>Brockton</i>
Kiley, Cornelius Joseph	<i>Peabody</i>
Krepps, Raymond Miles	<i>Reading, Penna.</i>
Lanois, Esdras Joseph	<i>Northboro</i>
Litch, William Isidore, D.M.D. (Tufts College)	<i>Roxbury</i>
Lokrantz, Sven Richard	<i>Stockholm, Sweden</i>
MacDonald, Joseph C.	<i>Beloit, Kansas</i>
Maroney, Frederick William	<i>Springfield</i>
Mason, Harry Edison	<i>Cambridge</i>
McAlpine, Alfred Freeman	<i>Somerville</i>
McDonald, Ray Thomas, A.B. (Tufts College)	<i>Medford</i>
McNamara, John Ignatius	<i>Taunton</i>
Meehan, James Morgan	<i>Somerville</i>
Meltzer, Philip Edward, D.M.D. (Tufts College)	<i>Roxbury</i>
Moran, Andrew Charles, A.B. (Holy Cross Coll.)	<i>Fall River</i>
Morris, James Benjamin Jr.	<i>Cape Verde Island, Portugal</i>
Mulhern, Joseph Patrick, A.B. (Holy Cross Coll.)	<i>Worcester</i>
Neill, Roberta Estella	<i>Holyoke</i>
Nickum, John Stanley	<i>Allentown, Penna.</i>
Otis, Fessenden Newport	<i>Meriden, Conn.</i>
Parker, Charles Clinton, Jr.	<i>Roxbury</i>
Polakewich, Isaac	<i>Biddeford, Me.</i>
Pratt, Ernest Frederick	<i>Lowell</i>
Robinson, Bernard Herman	<i>Roxbury</i>
Rockwell, Llewellyn Harrison	<i>Roxbury</i>
Ruisi, John Edward	<i>Westerly, R. I.</i>
Sannella, Salvatore	<i>Revere</i>
Saphirstein, Hyman	<i>Boston</i>
Sarason, Lillian	<i>Brooklyn, N. Y.</i>
Shaw, John	<i>Malden</i>
Shubert, Julius	<i>Boston</i>

TUFTS COLLEGE

Steffen, Anna Elizabeth, A.B. (Oberlin Coll.)	<i>Vermilion, Ohio</i>
Strammer, Myron Abner	<i>Jamaica Plain</i>
Sullivan, Russell Francis	<i>Melrose</i>
Swasey, Ednah Evitts	<i>Salem</i>
Tanner, Monroe Julius	<i>Meriden, Conn.</i>
Tooker, Harold Clifton, Ph.B. (Brown Univ.)	<i>Larchmont, N. Y.</i>
Trombley, Walter Vincent	<i>Broad Brook, Conn.</i>
Troupin, Abraham Solomon	<i>Boston</i>
Van Gaasbeek, Harold	<i>Springfield</i>
Villone, Anthony Joseph	<i>New York, N. Y.</i>
Wheeler, William Davidson	<i>Roxbury</i>
Woolverton, Edgar Frank	<i>Woodstock, N. B.</i>

Second Year

(To graduate in June, 1919)

Alden, Carmi Rupert	<i>Whitman</i>
Barnard, Frederick Joseph	<i>Meriden, Conn.</i>
Barstow, Carl Elijah	<i>Waltham</i>
Bartlett, Frank Herbert, Jr.	<i>East Lynn</i>
Baxley, Haughton Whitridge	<i>East Boston</i>
Brackett, Nathaniel Parker	<i>Waltham</i>
Bradley, John Francis, A.B. (Boston College)	<i>Salem</i>
Burke, John Edward, A.B. (Boston College)	<i>South Natick</i>
Byrnes, James Edmund	<i>Holyoke</i>
Cappiello, Silvestro	<i>Providence, R. I.</i>
Carey, Joseph Henry	<i>Manchester</i>
Clare, Wendell Phillips	<i>Newton Highlands</i>
Connors, Raymond Earl	<i>Providence, R. I.</i>
Cornelius, James Thambidurai	<i>Madras, South India</i>
Davis, Harry Eugene	<i>Chelsea</i>
Dean, Ella Batchelder	<i>Beverly</i>
Deitch, John	<i>Boston</i>
Dennen, Edward Henry	<i>Gloucester</i>
Devere, Earl Robert	<i>Providence, R. I.</i>
Devin, William Francis	<i>Westboro</i>
Donovan, William James	<i>Norwood</i>
Dougherty, Edward Francis, Jr.	<i>Woonsocket, R. I.</i>
Dunphy, John Joseph, Jr.	<i>North Brookfield</i>
Dushinsky, Samuel Sidney	<i>East Boston</i>
Eagan, Owen Louis	<i>Fall River</i>
Econom, Peter James	<i>New York, N. Y.</i>
Entwistle, Clayton Ross	<i>Monson</i>
Feldman, Louis	<i>Boston</i>

Fitch, Emmett Chandler	<i>Mooers, N. Y.</i>
Fitzgerald, Joseph William	<i>Jamaica Plain</i>
Fleury, Oswald Theodore	<i>South Norwalk, Conn.</i>
Forsley, Thomas, Jr.	<i>Manchester, N. H.</i>
Friberg, Joseph Nathaniel	<i>Manchester, N. H.</i>
Fryburg, Charles August	<i>Worcester</i>
Gallagher, James Francis, A. B. (Boston College)	<i>Newton Centre</i>
Gibson, Howland Allan	<i>Newport, R. I.</i>
Gilman, William Henry	<i>Cambridge</i>
Goldberg, Max Menus	<i>Lynn</i>
Golden, Harry	<i>Somerville</i>
Gosian, Moses	<i>Dorchester</i>
Guzzetta, Anthony James	<i>Avon, N. Y.</i>
B.S. (Univ. of Rochester)	
Henson, Paul Palmer	<i>Orleans</i>
Hennigar, Beatrice Almore (A.B. Acadia Univ.)	<i>Chester Basin, N. S.</i>
Honey, Florence Emerson	<i>Spencer</i>
Hooper, George Henry	<i>Iron Mountain, Michigan</i>
Iovanna, Nicholas	<i>Revere</i>
Israelian, Agnes Grace	<i>Burlington</i>
Jackson, Edward Joseph	<i>Fall River</i>
Johnson, Harold Henry	<i>East Boston</i>
Kaplan, Jacob Copel	<i>Boston</i>
Kinmonth, Raymond Arnold	<i>Brooklyn, Conn.</i>
Koppel, William	<i>Boston</i>
Korb, Harry	<i>Roxbury</i>
Korolick, George Gordon	<i>Boston</i>
Lancey, Clifford Scales	<i>Townsend</i>
Levethan, Samuel Theodore	<i>Boston</i>
B.S. (Tufts College)	
Lindblad, Eric Harry	<i>Avon</i>
Mackey, Charles Edward	<i>South Boston</i>
Mahoney, Ralph Patrick	<i>Portland, Me.</i>
Mahoney, William Anthony	<i>Providence, R. I.</i>
Mandeville, Ernest Arthur	<i>Holyoke</i>
Martin, Arthur Ellerby	<i>Providence, R. I.</i>
Matteo, Frank Irving	<i>Providence, R. I.</i>
Ph.G. (Rhode Island College of Pharmacy)	
McDonald, William James	<i>Westboro</i>
McDonnell, Joseph Leo	<i>Woonsocket, R. I.</i>
McGauley, Walter Gardner	<i>Boston</i>
D.D.S. (Georgetown Univ.)	
McKenney, Frederick William	<i>Lynn</i>
McKinnon, Donald Cuyler	<i>Lowell</i>

McLaughlin, James Francis	<i>Manchester, N. H.</i>
McLaughlin, Joseph Henry	<i>East Weymouth</i>
Mengel, John Hehn	<i>Frackville, Pa.</i>
Meunier, Raymond Royale	<i>Indian Orchard</i>
Milward, Francis William, Jr.	<i>East Boston</i>
A.B. (Boston College)	
Miner, Harold Cranston, A.B. (Brown Univ.) .	<i>East Greenwich, R. I.</i>
Morein, Samuel	<i>Providence, R. I.</i>
Mullen, Walter John, A.B. (Holy Cross College)	<i>Newton Highlands</i>
Murphy, Albert Bernard	<i>Waltham</i>
Murphy, John Micheal	<i>Abington</i>
Nash, Francis Joseph	<i>Westboro</i>
Nichols, Guy Edward	<i>Wilmington</i>
Normandin, Louis Adolphus, Jr.	<i>Swansea Centre</i>
O'Connor, Alfred Smith	<i>Worcester</i>
A.B. (Holy Cross College)	
Ormsby, Edward Bernard	<i>Dorchester</i>
Oslin, William Henry	<i>Providence, R. I.</i>
Paige, Wilbur Myrtland	<i>Lynn</i>
Penn, Harry	<i>Lawrence</i>
Phillips, Karl Tristram	<i>Amesbury</i>
Poirier, Armand Charles	<i>New Bedford</i>
Powers, John Paul	<i>Worcester</i>
Quinn, John Joseph James	<i>Revere</i>
Raleigh, Walter Melvin	<i>Springfield</i>
Reilly, William Edward	<i>Taunton</i>
Resnik, Joseph, B.S. (Columbia Univ.) . . .	<i>Roxbury</i>
Reynolds, Frank Albert	<i>Dorchester</i>
Rittner, Max	<i>Boston</i>
Robert, John Baptiste Wilfrid	<i>Tilton, N. H.</i>
Rousseau, Wilfred Joseph	<i>New Bedford</i>
Rowley, Philip William	<i>Gloucester</i>
Ruggles, Ralph Hastings	<i>Atlantic</i>
Rust, George Stevens	<i>Manchester</i>
Saunders, Sallie Harding	<i>West Medway</i>
Savard, Arthur Joseph	<i>Bristol, Conn.</i>
Sawyer, Edward Julius	<i>Newtonville</i>
Sciaraffa, John Maria	<i>East Orange, N. J.</i>
Segal, Joseph Nathaniel	<i>Boston</i>
Shay, Edward Francis	<i>Fall River</i>
Sheehan, George Timothy	<i>Manchester, N. H.</i>
Shohet, Henry Gabriel, A.B. (Colby College)	<i>Portland, Me.</i>
Silberg, Morris Abraham	<i>Boston</i>

Silverman, William Yale	<i>Revere</i>
Spellissy, Frank Thomas	<i>Marlboro</i>
Splaine, Russell Leo	<i>North Brookfield</i>
Sporn, Abram	<i>Springfield</i>
Steinberg, Naaman	<i>Roxbury</i>
Struthers, Halbert Kinnie	<i>Upton</i>
Tanner, Walter Lewis	<i>Manchester, Conn.</i>
Tashian, Hovnan Nazaret	<i>Boston</i>
Terada, Osmu	<i>Sakai City, Japan</i>
Tilton, Warren Norwood	<i>New Bedford</i>
Vershow, Nathan	<i>Boston</i>
Walsh, Jeffrey James, D.M.D. (Tufts College)	<i>Fall River</i>
Webber, Joseph Bernard	<i>Dorchester</i>
Weintraub, Harry Jeroham	<i>Boston</i>
Welch, John Laurence	<i>Brockton</i>
Weymouth, Currier Clyde	<i>Kingfield, Me.</i>
White, Earl Russell	<i>Attleboro</i>
Whitehead, William Levi, A.B., (Clark Univ.)	<i>Eastman, Ga.</i>
Wolfson, Louis Elijah	<i>Roxbury</i>
Wunderly, Walter Spencer	<i>Nazareth, Penna.</i>
Yorshis, Philip	<i>Boston</i>

First Year

(To graduate in June, 1920)

Baker, Max	<i>Dorchester</i>
Baxter, Joseph Murray	<i>St. John, N. B.</i>
Benson, Clarence Kirk	<i>Dedham</i>
Boland, Benedict Fenwick, A.B. (Tufts College)	<i>Worcester</i>
Boruchoff, Henry	<i>Malden</i>
Braverman, Aaron Harry	<i>Roxbury</i>
Brennan, Margaret Elizabeth	<i>East Lynn</i>
Bromson, Norman	<i>Providence, R. I.</i>
Brothers, John Henry	<i>Providence, R. I.</i>
Butler, Alfred Worcester	<i>Walham</i>
Chaprasdian, Mihran Abraham	<i>Boston</i>
A.B. (Central Turkey College)	
Coleman, Joseph Edwards	<i>Southampton</i>
Connors, Thomas Aquinas	<i>Mattapan</i>
Cooper, Olive Alfreda	<i>Revere</i>
Cormier, Evariste Alfred	<i>Leicester</i>
Corr, Joseph Edward	<i>Dorchester</i>
Coulson, Herbert	<i>Salem, N. H.</i>
Cruickshank, Frank Sheppard	<i>Dorchester Centre</i>

Cunningham, Harold Dever	<i>Cambridge</i>
A.B. (Holy Cross College)	
DeCesare, Nicandro Francis	<i>Lawrence</i>
Desmond, Margaret Ellen	<i>Beverly</i>
Dinneen, William Thomas	<i>Lynn</i>
Dion, Deo Josepha	<i>Taftville, Conn.</i>
Dubins, Joseph Aaron	<i>Dorchester</i>
Edmunds, Charles Storver	<i>Bangor, Me.</i>
Gagnon, Jules Octave	<i>Manchester, N. H.</i>
Galleani, Ilia	<i>Wrentham</i>
Geist, Frederick Denkmar	<i>Brookline</i>
Genest, Aloria Henry	<i>Indian Orchard</i>
Gilroy, Lester James	<i>Attleboro</i>
Glickman, Helen Sarah	<i>Springfield</i>
Gould, Robert Louis	<i>Roxbury</i>
Grenberg, Charna	<i>Shanghai, China</i>
Grossman, Samuel	<i>Taunton</i>
Guijarro, Antonio	<i>Bayamon, P. R.</i>
Hanson, Lester Arthur	<i>Worcester</i>
Hanyszewski, Pauline Kathryn	<i>Ware</i>
Harrington, Elmer Joseph	<i>Holyoke</i>
Heimlich, Fred	<i>Lynn</i>
Herrero, Blas Carlos	<i>Corozal, Porto Rico</i>
Hogan, Daniel John	<i>Charlestown</i>
Horan, Thomas Benedict	<i>Fall River</i>
Horan, William Augustine	<i>Fall River</i>
Ingalls, Raymond George	<i>Berlin, N. H.</i>
Jellis, Walter	<i>Manchester, N. H.</i>
Joress, Mark Harry	<i>Boston</i>
Joyce, Roland Joseph	<i>Nashua, N. H.</i>
Kamberg, Samuel	<i>Boston</i>
Kaplan, Edward	<i>Everett</i>
Kaplan, Julius Arthur	<i>Malden</i>
Kassees, Saad Hanna	<i>Palestine, Jerusalem</i>
Kerkhoff, Mary Edith	<i>Attleboro</i>
Knowlton, Donald Swett	<i>Fairfield, Me.</i>
Kotler, Moses George	<i>Boston</i>
Kramer, Louis Irving	<i>Providence, R. I.</i>
Lavelle, Gertrude Helen	<i>Natick</i>
Lee, Frederick Morton	<i>Newport, R. I.</i>
LeMarbre, Albert Edward	<i>Salem</i>
Levy, Phillip Earle	<i>Holliston</i>
Littlehale, Roy Frederick	<i>Needham Heights</i>

Lutecki, Bronislaw	<i>Boston</i>
Lynch, Harold Francis	<i>Holyoke</i>
Mace, Roswell Greenwood	<i>Huntington</i>
MacKinnon, Irvile Herbert	<i>Attleboro</i>
McCusker, Henry Francis	<i>Providence, R. I.</i>
McLean, John Cassidy Joseph	<i>Holyoke</i>
McSweeney, Joseph Henry	<i>Somerville</i>
Montgomery, David Henry	<i>Providence, R. I.</i>
Moses, Alvin Raymond	<i>Lynn</i>
Murphy, Thomas Burke	<i>Lynn</i>
Nadel, Samuel	<i>Dorchester</i>
O'Keefe, John Andrew, Jr.	<i>Providence, R. I.</i>
Olans, Herman	<i>Roxbury</i>
Oslin, John Francis	<i>Providence, R. I.</i>
Park, Harry Linwood	<i>Revere</i>
Pelchie, William Joseph	<i>Shelburne Falls</i>
Pelletier, Emery	<i>Providence, R. I.</i>
Peterson, Carl Adrian Rudolph	<i>Falmouth</i>
Randall, Guy Charles	<i>Lowell</i>
Ransom, Roy Anderson	<i>Boston</i>
Rice, Charles	<i>Dorchester</i>
Robbins, Herman	<i>Jamaica Plain</i>
Roberson, Tracey Lloyd	<i>Tunkhannock, Penna.</i>
Roberts, Harry Lewis	<i>Springfield</i>
Rondeau, Leo Garrigan	<i>North Brookfield</i>
Rosen, Kermit Charles	<i>Dorchester</i>
Rotman, Nelson	<i>East Boston</i>
Russell, Wilson James	<i>Manchester, N. H.</i>
Ryan, James Bernard	<i>Easthampton</i>
Ryan, John Newman	<i>Ware</i>
Sacks, Albert David Henry	<i>Boston</i>
Sawyer, Carroll Whitman, Jr.	<i>Somerville</i>
Siragusa, James Joseph	<i>Boston</i>
Smith, Stephen Munro	<i>Little Falls, N. Y.</i>
Smith, William Russell, A.B. (Holy Cross)	<i>Taunton</i>
Spitz, Jacob	<i>Boston</i>
Stamas, Theodore Albert	<i>Boston</i>
Stasio, Joseph	<i>East Boston</i>
Sterns, Albert Henry	<i>New Bedford</i>
Stern, Maxwell	<i>Chelsea</i>
Stone, Moses Jacob	<i>Dorchester</i>
Sweeney, William Joseph	<i>Newburyport</i>
Tumarkin, Morris Saul	<i>Roxbury</i>

Veve, Miguel, Jr.	<i>Luquillo, P. R.</i>
Weinberg, Philip Barron	<i>Brockton</i>
Weissman, Ruth	<i>Boston</i>
West, Gustav Fredrick	<i>Boston</i>
White, John Bernard	<i>Lawrence</i>
Woodman, Marjorie	<i>West Medway</i>
Zacks, David	<i>Taunton</i>
Zelig, David	<i>Haverhill</i>
Zundell, Samelu Charles	<i>Fall River</i>

Dental School

[P. O. Address, 416 Huntington Ave., Boston, Mass.]

Third Year

(To graduate in June, 1917)

Bardwell, Emory Chester	<i>Monson</i>
Barnard, Robert Hyland	<i>Keene, N. H.</i>
Barone, Anthony	<i>Boston</i>
Bearse, George Francis	<i>East Milton</i>
Berg, Bernard	<i>Dorchester</i>
Besse, Harlan Frederic	<i>West Concord, N. H.</i>
Bixby, Helen Alva Marion	<i>East Lynn</i>
Blumerfield, Israel Michael	<i>Boston</i>
Cantor, Bernard Nathan	<i>New Bedford</i>
Carr, Thurston Everard	<i>Worcester</i>
Chase, Frank Leonard	<i>Portland, Me.</i>
Cobb, Marion Julia	<i>Caryville</i>
Coffey, Albert Gaffney	<i>Nashua, N. H.</i>
Coggar, William Thomas	<i>St. John, N. B.</i>
Coggins, Charles William	<i>Marlboro</i>
Collier, Harry Conrad	<i>Worcester</i>
Commins, John Francis	<i>St. Stephen, N. B.</i>
Crites, Llewellyn Lloyd	<i>Lewiston, Me.</i>
Crowe, Paisley Sommers	<i>South Braintree</i>
Dawidowitz, Frida	<i>Boston</i>
Deane, Laura Belle	<i>Lowell</i>
Delaney, Henry Raymond	<i>Fall River</i>
Desmond, Frederick James	<i>Beverly</i>
Deyoe, Ralph Jacob	<i>Vergennes, Vt.</i>
Dick, John Gilbert Temple	<i>Boston</i>
Dimmick, Meriel Lapham	<i>Newburyport</i>
Dixon, Arthur, M.D., (Tufts College)	<i>Worcester</i>
Donahoe, Theodore Patrick	<i>Winthrop</i>
Donohoe, William Frederick	<i>Lowell</i>
Doyle, Theresa Genevieve	<i>Biddeford, Me.</i>
Ellison, Arthur True	<i>Spencer</i>
Ford, Wendell Phillips	<i>Dorchester</i>
Foster, Alice Sara	<i>Dorchester</i>
Fox, Charles Joseph	<i>Clinton</i>

Fox, Merwin Keith	<i>Malden</i>
Frechette, Eugene Louis	<i>Worcester</i>
Fredette, Emile Raymond	<i>Linwood</i>
French, Albert Everard	<i>Winthrop, Me.</i>
Fuller, Frank, Jr.	<i>Fall River</i>
Garrard, Stanley Robert	<i>Boston</i>
Goldman, Samuel	<i>Boston</i>
Goodell, Edward Clark	<i>Shelburne Falls</i>
Goodridge, John Greenough	<i>Lynn</i>
Gould, Ernest Moore	<i>Dedham</i>
Grigg, Richard James	<i>Somerville</i>
Gutterson, Philip Cheever	<i>Fair Haven, Vt.</i>
Hall, Stanley Edward	<i>West Newton</i>
Hardy, Irving Robinson	<i>Taunton</i>
Harrigan, Clarence Wilfrid	<i>Houlton, Me.</i>
Harrington, Joseph Gerard	<i>St. John, N. B.</i>
Hart, Harry Asahel	<i>Palmer</i>
Healy, Timothy Gerard	<i>West Newton</i>
Henriques, Sydenham Cohen	<i>Boston</i>
Henry, Edward Augustine	<i>Dorchester</i>
Herlihy, John Patrick	<i>Holyoke</i>
Hird, Walter Irving	<i>Dorchester</i>
Hoar, Martin Joseph	<i>Springfield</i>
Hooker, Alfred Lothrop	<i>Southampton</i>
Jewett, Fred Taylor	<i>Topsfield</i>
Jones, Harry Clinton	<i>Southampton</i>
Kapochy, Anthony Lewis	<i>Shenandoah, Penna.</i>
Kearney, John Francis	<i>South Boston</i>
Kedian, Harold Francis	<i>Swampscott</i>
Killory, John Francis	<i>Brockton</i>
Krasnoff, Charles William	<i>Dorchester</i>
LaBonte, John Edward	<i>Webster</i>
Lameri, Birney James	<i>Hardwick, Vt.</i>
Litner, Maurice Allen	<i>Chelsea</i>
Littlefield, Otis Moulton	<i>Manchester, N. H.</i>
Lockwood, Walter Eugene	<i>East Jewett, N. Y.</i>
Lundgren, Raymond Axel	<i>Providence, R. I.</i>
MacNeily, John	<i>North Cambridge</i>
Mandelbaum, Harry	<i>Brooklyn, N. Y.</i>
Martin, Willard Everett	<i>Boston</i>
McCann, John Joseph	<i>Lowell</i>
McCue, William Henry	<i>Milford</i>
Mechaber, Benjamin	<i>New Bedford</i>

Milliken, William Anthony	<i>Dorchester</i>
Mintz, Anna	<i>Roxbury</i>
Moore, William Edward	<i>Herkimer, N. Y.</i>
Morse, Carlton Brett	<i>Hudson</i>
Morse, Myron Clarke	<i>Haverhill</i>
Murphy, John Ralph	<i>Medford</i>
Murray, Phillip Irving	<i>Revere</i>
Orr, Lauriston Ellis	<i>Wilton, Me.</i>
Owen, Richard Campbell	<i>Saco, Me.</i>
Palmer, Arthur Todd	<i>Braintree</i>
Palmer, Ray Huntress	<i>Haverhill</i>
Parker, Clarence Elwood	<i>East Lynn</i>
Porter, David	<i>Roxbury</i>
Prizer, Alec	<i>Lynn</i>
Rollins, Fred Goldsmith	<i>Wollaston</i>
Rosenbloom, Willis Abraham	<i>Boston</i>
Ruggles, Everett Hale	<i>Boston</i>
Ryan, Edward Francis	<i>Amesbury</i>
Ryan, Edward Michael	<i>Lowell</i>
Rye, Edwin Leroy	<i>Norwood</i>
Saunders, John Thomas	<i>Webster</i>
Sawyer, Bertram Hatch	<i>Salem</i>
Sawyer, Robert Nims	<i>Manchester, N. H.</i>
Scanlan, James Bernard	<i>Providence, R. I.</i>
Schlichte, George Anthony	<i>South Boston</i>
Segal, Samuel	<i>Dorchester</i>
Seidel, John Charles	<i>Biddeford, Me.</i>
Shapiro, Miriam	<i>Brooklyn, N. Y.</i>
Shea, Michael Joseph	<i>Waverley</i>
Sleeper, Edwin	<i>West Somerville</i>
Smith, Abraham George	<i>Boston</i>
Smith, George Richard	<i>Fall River</i>
Smith, Herman Nelson	<i>Vineyard Haven</i>
Smith, Isidore Wilfred	<i>Leominster</i>
Speight, Stephen Lawrence	<i>East Longmeadow</i>
Staples, Bernard Francis	<i>Brooks, Me.</i>
Sternberg, Louis	<i>Boston</i>
Stewart, Donald Gordon	<i>West Fort William, Ontario, Canada</i>
Sullivan, Edward Francis	<i>Springfield</i>
Swett, Alton Houghton	<i>Weld, Me.</i>
Taft, Clarence Milton	<i>Keene, N. H.</i>
Theriault, Wilfred Valentine	<i>Boston</i>

Thompson, Ralph James	<i>Lancaster, N. H.</i>
Thorburn, Lloyd Mungo	<i>Marshall, Minn.</i>
Whitney, Harold Snell	<i>Milford</i>
Wildes, Robert Patten	<i>Skowhegan, Me.</i>
Williams, Arthur Francis	<i>West Quincy</i>
Wilson, Arthur Clark	<i>Marblehead</i>
Wollison, Hammon Louis]	<i>New Bedford</i>
Wovsaniker, Louis	<i>Brooklyn, N. Y.</i>

Second Year

(To graduate in June, 1918)

Adams, Philip Edwin	<i>Farmington, Me.</i>
Allan, Theodore DeWitt	<i>Gloucester</i>
Allen, John Robert	<i>North Attleboro</i>
Ames, Walter Frank	<i>North Attleboro</i>
Audet, Joseph Achille	<i>Boston</i>
Backman, Maurice Peter	<i>Lynn</i>
Baker, Horace Earle	<i>North Attleboro</i>
Bartlett, Charles Oscar	<i>East Holliston</i>
Begley, James Edward	<i>Woburn</i>
Belanger, Emile Jean	<i>Nashua, N. H.</i>
Bennett, Harold Jones	<i>Monson</i>
Bergan, Francis Patrick	<i>North Cohasset</i>
Berger, Albert Conrad	<i>Providence, R. I.</i>
van den Besselaar, Hubert	<i>Boston</i>
Bianchi, Anthony Ferdinand	<i>Somerville</i>
Billingham, Oscar Warren	<i>Jamaica Plain</i>
Bodin, Leroy George	<i>Northampton</i>
Brown, Frederic Ward	<i>Scituate</i>
Brown, Henry Abraham	<i>Boston</i>
Browning, Frank Duane	<i>Jewett City, Conn.</i>
Brush, David Carey	<i>Vineyard Haven</i>
Bucknam, Earle Shepard	<i>Lewiston, Me.</i>
Burke, Marcus Francis	<i>Clinton</i>
Burke, Mark Manuel	<i>Providence, R. I.</i>
Burke, William Edward	<i>Westfield</i>
Burnce, Rachel Minnie	<i>Boston</i>
Burns, Bernard John	<i>Worcester</i>
Burns, Leo Edward	<i>Natick</i>
Callahan, Henry Francis	<i>Peabody</i>
Campbell, Charles Edward	<i>Peabody</i>
Cassidy, Donald William	<i>Houlton, Me.</i>
Chisholm, Walter King	<i>West Bridgewater</i>

Church, Dana Earle	<i>Springfield</i>
Clancy, William Henry	<i>Hudson</i>
Clark, Ralph Arra	<i>Arlington</i>
Clarke, George Francis	<i>Lowell</i>
Cohen, Jacob	<i>Haverhill</i>
Cohen, Samuel	<i>Manchester, N. H.</i>
Cohen, Samuel	<i>Chelsea</i>
Cohen, Simon Isador	<i>Chelsea</i>
Collins, William Henry	<i>Bondsville</i>
Consolmagno, Luke Joseph	<i>Medford</i>
Cooper, Benedict	<i>Brooklyn, N. Y.</i>
Coughlan, Alphonsus John	<i>St. John, N. B.</i>
A.B. (St. Joseph's Univ.)	
Crawford, Fred Brown	<i>Newport, Vt.</i>
Croisetiere, Leo Albert	<i>New Bedford</i>
Crossland, Ernest Agur	<i>Haverhill</i>
Crowl, Loyal J.	<i>Boston</i>
Crowley, Harold Francis	<i>Biddeford, Me.</i>
Crowley, John Walter	<i>Dorchester</i>
Cunningham, Richard Daniel	<i>Chicopee Falls</i>
Cupitt, Graham Hunter	<i>Taunton</i>
Cushing, Ralph William	<i>Portland, Me.</i>
Cushner, Jacob Aaron	<i>Boston</i>
Dacey, Arthur Joseph	<i>Marlboro</i>
Dalton, Peter Joseph	<i>Marlboro</i>
DeFelice Michelangelo	<i>Boston</i>
Demers, Romeo Felix	<i>Manchester, N. H.</i>
DesMarais, Alfred George	<i>Somersworth, N. H.</i>
Desmond, John Walter	<i>Shirley</i>
Dickson, Robert Earl	<i>West Somerville</i>
Doherty, Thomas Augustine	<i>Lynn</i>
Dufort, Gerald Eugene	<i>Manchester, N. H.</i>
Duke, Robert Josiah	<i>Northfield, Vt.</i>
Eaton, Dean Colton	<i>Brunswick, Me.</i>
Edwards, Arthur Francis	<i>Salem</i>
Egan, John Joseph O'Neil	<i>Dorchester</i>
Ellis, John Henry	<i>Peabody</i>
Emmons, Harry Elmer, Jr.	<i>Brunswick, Me.</i>
Epstein, Louis	<i>New Bedford</i>
Fairbanks, Ivan Dean	<i>South Norwalk, Conn.</i>
Farrell, Charles Laurence	<i>West Newton</i>
Fernald, Orrin Edgar	<i>Dover, N. H.</i>
Fierstein, Robert	<i>Providence, R. I.</i>

Flanders, Charles Chase	<i>Malden</i>
Foley, William Fergus	<i>Boston</i>
Frechette, Emile August	<i>Worcester</i>
Freedman, Abraham	<i>Boston</i>
Frizzell, Walter Miller	<i>Greenfield</i>
Garvey, Arthur Russell	<i>Waltham</i>
Gaudet, Leo Andrew	<i>St. Joseph, N. B.</i>
Gendreau, Raymond	<i>Dracut Center</i>
German, George Henry	<i>Meteghan, N. S.</i>
Ginn, James Richard	<i>West Harwich</i>
Goldsmith, William Erwin	<i>Newburyport</i>
Goodman, Morris	<i>Chelsea</i>
Grady, Fred Blessington	<i>Holyoke</i>
Green, Charles Harrison	<i>Boston</i>
Grimes, James Harvey	<i>Hillsboro, N. H.</i>
Grinnell, Willis Howland	<i>Waltham</i>
Grotsky, Meyer	<i>Boston</i>
Hackett, John Henry	<i>Biddeford, Me.</i>
Haffner, Ruth Clarissa	<i>Lawrence</i>
Hagerty, Daniel Joseph	<i>Nashua, N. H.</i>
Hagerty, John Francis, Jr.	<i>Nashua, N. H.</i>
Hall, James Paul	<i>Cambridge</i>
Harmer, Milton Ivan	<i>Norton, N. B.</i>
Harris, Caspar	<i>East Boston</i>
Harris, Max Jacob	<i>Dorchester</i>
Harty, William Francis, Jr.	<i>Gloucester</i>
Harvey, Charles Edward	<i>Boston</i>
Heath, William Brewster	<i>Malden</i>
Hickie, William Andrew	<i>St. George, N. B.</i>
Isherwood, Sidney	<i>Boston</i>
Jacobs, Max Henry	<i>Boston</i>
Jones, Solomon Jacob	<i>Hyde Park</i>
Kefferstein, John	<i>Lawrence</i>
Kelleher, John Alexander, Jr.	<i>Marlboro</i>
Kelleher, Joseph Jeremiah	<i>Brockton</i>
Kelley, Francis Xavier	<i>Milford</i>
King, Thomas Henry	<i>Newton Highlands</i>
Klein, Max Mitchell	<i>Roxbury</i>
Lambert, James Joseph	<i>Webster</i>
LaRochelle, Arthur Isidore	<i>Southbridge</i>
LeBlanc, Arthur Hilarion	<i>Cape Bald, N. B.</i>
Lemont, Mason Metcalf	<i>Bath, Me.</i>
Levin, Israel	<i>Providence, R. I.</i>

Levin, Nathan Simmon	<i>Salem</i>
Levitan, Julius Joseph	<i>South Boston</i>
Lima, Frank William	<i>Lynn</i>
Little, Albert Wentworth	<i>Caribou, Me.</i>
Lounsbury, Paul, Jr.	<i>Roslindale</i>
Lynch, Ambrose Henry	<i>Providence, R. I.</i>
Mackay, Edgar Forrester	<i>Belmont</i>
Margolis, David Henry	<i>Boston</i>
Maycock, James Herbert	<i>Amesbury</i>
McAuliffe, Philip Leo	<i>Wakefield</i>
McClure, Nathan Francis	<i>Atlantic</i>
McCormick, John James	<i>Springfield</i>
McGrath, James Harold	<i>Taunton</i>
McInnis, Joseph Ambrose	<i>Roxbury</i>
McKenna, Ernest James	<i>Dorchester</i>
McKenna, Paul Joseph	<i>Dorchester</i>
McLellan, William Leonard	<i>Kensington, P. E. I.</i>
McNary, Ralph Henry	<i>Chelsea</i>
Michelson, Myer Warren	<i>West Roxbury</i>
Mitchell, William Brewster Gould, Jr.	<i>Hull</i>
Moberg, Frank Walter	<i>Brockton</i>
Morrill, Everett Elverdo	<i>Dorchester</i>
Morrison, William Edward	<i>Everett</i>
Moskow, Rose	<i>Dorchester</i>
Mulcahy, Raymond Francis	<i>West Springfield</i>
Murphy, Frank Hill	<i>Brockton</i>
Murray, Charles Henry	<i>Worcester</i>
Neumann, Erna Elisabeth	<i>Bremen, Germany</i>
Norton, Thomas Augustus	<i>Rutland, Vt.</i>
Norton, Thomas Keene	<i>Lexington</i>
Nulty, Thomas Edmund	<i>Ticonderoga, N. Y.</i>
O'Connor, John Francis	<i>Fitchburg</i>
O'Gorman, Frederick Patrick	<i>South Manchester, Conn.</i>
O'Hara, Thomas Edward	<i>Cambridge</i>
O'Hear, Francis Xavier	<i>Thompsonville, Conn.</i>
O'Neil, Frederick William	<i>Saranac Lake, N. Y.</i>
O'Neill, Harry Martin	<i>Nashua, N. H.</i>
Parsons, Fred Anthony	<i>Patten, Me.</i>
Pennine, Saverio Nicandro	<i>Providence, R. I.</i>
Perelman, Joseph Max	<i>Burlington, Vt.</i>
Phipps, Walter Emerson	<i>Holliston</i>
Podolinsky, Solomon Benjamin	<i>Boston</i>
Pofcher, Joseph	<i>Roxbury</i>

Powers, James Harold	<i>Peabody</i>
Powers, Richard Patrick	<i>Clinton</i>
Reardon, Timothy Henry, Jr.	<i>Lowell</i>
Reed, Leonard Harold	<i>Keswick Ridge, N. B.</i>
Richards, Clifton Stephen	<i>Haverhill</i>
Robertson, George Waldo	<i>North Abington</i>
Rosenberg, Edward	<i>Roxbury</i>
Rosenblum, David Samuel	<i>Manchester, N. H.</i>
Ross, Samuel	<i>Boston</i>
Ross, Stanley Huggins	<i>Malden</i>
Rothblatt, George	<i>Willimantic, Conn.</i>
Rourke, Arthur Thomas	<i>Fitchburg</i>
Rubin, Joseph	<i>Boston</i>
Ryan, John Thomas	<i>Avon</i>
Sagansky, Harry	<i>Boston</i>
Sager, Louis Emmons	<i>Roslindale</i>
Saklad, Samuel	<i>Roxbury</i>
Savage, Gale Russell	<i>Fitchburg</i>
Schore, Herman	<i>Brooklyn, N. Y.</i>
Schwartz, Bernard Samuel	<i>Boston</i>
Schwartz, Hyman	<i>Boston</i>
Scott, Bessie Bonker	<i>Worcester</i>
Shapiro, Harry	<i>Lawrence</i>
Sheehan, Albert Thomas	<i>Wallingford, Conn.</i>
Sheldon, Robert Francis	<i>Ticonderoga, N. Y.</i>
Shubow, Abraham Sidney	<i>Dorchester</i>
Siskind, Berthold	<i>Lawrence</i>
Snell, John Philip	<i>West Lynn</i>
Stevens, Roland Silas	<i>Monhegan, Me.</i>
Stewart, Roy Bryson	<i>Faneuil</i>
Stokes, Samuel Hartley	<i>Haverhill</i>
Straw, Merle David	<i>Guilford, Me.</i>
Sullivan, Frederick Devlin	<i>Sherburne Falls</i>
Sullivan, Louis Edmund	<i>Maynard</i>
Tetlow, Allen Redfern	<i>Taunton</i>
Teutonico, Arthur Iginio	<i>Lawrence</i>
Thomas, Kenneth Joshua	<i>Calias, Me.</i>
Threshie, Charles	<i>Brookline</i>
Trundy, Levi	<i>Searsport, Me.</i>
Voge, William Louis	<i>Jamaica Plain</i>
Walker, Edward Shipley	<i>Providence, R. I.</i>
Walsh, Edward Thomas	<i>Bridgewater</i>
Walsh, Lewis Edward	<i>Everett</i>

Weener, Joseph	<i>Boston</i>
Wein, Theodore	<i>Roxbury</i>
Weisman, Frank	<i>Arlington</i>
Welch, Francis Joseph	<i>Calais, Me.</i>
Wescott, Oliver Dunbar	<i>Malden</i>
Weymouth, Charles Haines, Jr.	<i>Fisherville</i>
Whittemore, Forrest James	<i>Brimfield</i>
Wholey, Timothy Joseph	<i>Lawrence</i>
Whoriskey, George Richard	<i>Cambridge</i>
Williamson, Kenneth Gillmor	<i>Second Falls, N. B.</i>
Wills, Albert Cornelius	<i>Buxton, British Guiana</i>
Woods, Edward Patrick	<i>Newburyport</i>
Woodworth, Randall Nelson, Jr.	<i>Concord Junction</i>
Yando, Arthur Heli	<i>Fitchburg</i>
Zimmerman, Harold	<i>Springfield</i>

First Year

(To graduate in June, 1919)

Abbott, George Isaac	<i>Bethel, Vt.</i>
Abramovitz, Max	<i>Revere</i>
Adams, Warren Lincoln	<i>Somerville</i>
Algar, Philip	<i>Milton</i>
Altman, Sidney Benjamin	<i>Clinton</i>
Anderson, Charles Rangnar	<i>East Longmeadow</i>
Andrews, Earle	<i>Gloucester</i>
Archambeault, Arthur	<i>New Bedford</i>
Barry, Jeremiah Francis	<i>Everett</i>
Barry, John Francis	<i>South Manchester, Conn.</i>
Bates, Carl Jewell	<i>Winthrop, Me.</i>
Baxter, Charles Francis	<i>Waterville, Me.</i>
Bernot, Ruth Florida	<i>Worcester</i>
Bethell, Russell Howard	<i>Norway, Me.</i>
Bilsky, Philip Harry	<i>Southwick</i>
Bishop, Floyd Beecher	<i>Presque Isle, Me.</i>
Blackey, John Harold	<i>Campello</i>
Boire, Paul, Jr.	<i>Manchester, N. H.</i>
Bommer, Arno Max	<i>Chelsea</i>
Bonney, Dorothy Geierstein	<i>Arlington</i>
Boyaner, Frank	<i>St. John, N. B.</i>
Brodbine, John Alfred	<i>Beachmont</i>
Brooks, Frederick Bynum	<i>Cambridge</i>
Brown, Emery Hartley	<i>Presque Isle, Me.</i>

Bulfinch, Fred Lawrence	<i>Manchester, N. H.</i>
Bunnell, Shirley Abel	<i>Wales, Me.</i>
Butler, Percival Forbes	<i>Bath, Me.</i>
Byrnes, John Joseph	<i>Holyoke</i>
Cahill, Francis Michael	<i>Worcester</i>
Callahan, John Francis	<i>Provincetown</i>
Carmody, Thomas George	<i>Providence, R. I.</i>
Caron, Milio Valmor	<i>Lewiston, Me</i>
Casper, Michael Vincent	<i>South Boston</i>
Cassidy, Francis Leo	<i>Millbury</i>
Clancy, James Fred	<i>Marlboro</i>
Cleary, John Albert	<i>Holyoke</i>
Cleary, William Francis	<i>Roxbury</i>
Cohen, Abraham Benjamin	<i>Springfield</i>
Coleman, Alfred Michell	<i>East Boston</i>
Collette, Albana Hugo	<i>Spencer</i>
Comeau, Edmour Louis	<i>St. John, N. B.</i>
Congdon, James Leonard	<i>Swampscott</i>
Connor, Frank John	<i>Portland, Me.</i>
Cooper, Joseph Fenimore	<i>Glen Lyon, Penn.</i>
Courant, Reginald	<i>Gloucester</i>
Crowley, Joseph Henry	<i>Brighton</i>
Cummings, Lawrence Henry	<i>Clinton</i>
Curran, James Leo	<i>Worcester</i>
Dahl, Joseph Optimus	<i>Maynard</i>
Daitch, Abraham	<i>Boston</i>
Davis, Russell Henry	<i>North Attleboro</i>
Deane, Edward Thornton	<i>Middleboro</i>
Desjardins, Louis Philip	<i>Brunswick, Me.</i>
Diamond, Robert Ira	<i>East Boston</i>
Dion, Alfred Joseph	<i>Worcester</i>
Doane, Erling Eugene	<i>Somerville</i>
Donahoe, Frederic Florence	<i>Lowell</i>
Donahue, George Holland	<i>Malden</i>
Donahue, William Frederick	<i>Dorchester</i>
Donlon, Carl James	<i>Cambridge</i>
Donovan, Edward Harold	<i>North Abington</i>
Dowd, Thomas Francis	<i>Fall River</i>
Doyle, Thomas Owen	<i>Worcester</i>
Dreicorn, Richard Edward	<i>Holyoke</i>
Dudley, Harry Orville, Jr.	<i>Somerville</i>
Dunn, Frank Henry	<i>Roxbury</i>
Egger, Eldon Fearing	<i>Brockton</i>

Eldridge, Arthur Burnside	<i>Holbrook</i>
Emery, Norman Bartlett	<i>York Beach, Me.</i>
Enholm, Philip Andrew	<i>Newton Lower Falls</i>
Erlenbach, Franklin Michael, Jr.	<i>Brookline</i>
Everett, Raymond Charles	<i>Waltham</i>
Fallon, Paul Owen	<i>Roxbury</i>
Fenton, Joseph William	<i>Lawrence</i>
Fenton, Maurice John	<i>Springfield</i>
Fine, Harry Israel	<i>Boston</i>
Finnegan, John Patrick	<i>Brockton</i>
Fishman, Leopold	<i>Cambridge</i>
Fitzgerald, Edmund John	<i>Taunton</i>
Foss, Willard Harold	<i>Leominster</i>
Franchere, Harry Birch	<i>North Adams</i>
Freeland, Jacob Dewey	<i>Worcester</i>
Friedman, Reuben	<i>Boston</i>
Garland, Gordon E.	<i>Nashua, N. H.</i>
Genn, Benjamin Harris	<i>Pittsfield</i>
Gibson, Burton Michaux	<i>Boston</i>
Gideon, Jessie Katharine	<i>Boston</i>
Ginsberg, Harold	<i>Springfield</i>
Ginsberg, Joseph	<i>Springfield</i>
Gleitsman, Adolphus Richard	<i>Somerville</i>
Golden, Edward Warren	<i>East Boston</i>
Goldstein, Moses	<i>Boston</i>
Gough, Martin George	<i>Everett</i>
Grady, John Joseph	<i>Salem</i>
Grady, Walter Joseph	<i>Worcester</i>
Graichen, Walter Gustave	<i>Lawrence</i>
Gregg, James Aloysius	<i>Natick</i>
Gregoire, Ulric Leopold	<i>New Bedford</i>
Gregory, Edward	<i>New Bedford</i>
Grenache, Thomas Emil	<i>Hudson</i>
Hannigan, Timothy William, Jr.	<i>Milford</i>
Hannon, John Francis	<i>Brockton</i>
Hare, Benjamin	<i>Springfield</i>
Harris, Maurice Coleman	<i>Lawrence</i>
Healey, William Leo	<i>Clinton</i>
Healy, Frank William	<i>New Bedford</i>
Hobbs, Edward Stanley, Jr.	<i>Stony Brook</i>
Hodges, Kenneth Bertrand	<i>North Attleboro</i>
Holland, Charles Leo	<i>South Boston</i>
Hookway, Harold Henry	<i>Dorchester</i>

Horrigan, Howard Patrick	<i>Holyoke</i>
Hughes, Wilbur Robert	<i>Somerville</i>
Hunter, James Stanley	<i>Natick</i>
Jacobs, Isidore	<i>Brooklyn, N. Y.</i>
Jennings, Clifford Milton	<i>Beach Park, Conn.</i>
Just, José	<i>Rio Grande, P. R.</i>
Kalander, William Eugene	<i>Roxbury</i>
Kalin, Harry Hyman	<i>Leominster</i>
Kandib, Sophia	<i>Dorchester</i>
Karamallis, Seraphim Theoharis	<i>Boston</i>
D.D. (Constantinople Theological College)	
Kassels, Harry Isaac	<i>Malden</i>
Keane, Edward Francis	<i>Manchester, N. H.</i>
Kelley, Robert Emmet	<i>Pawtucket, R. I.</i>
Kempton, Carl Fletcher	<i>Rangeley, Me.</i>
Kestenbaum, Edward	<i>New Bedford</i>
King, Frank Robinson	<i>Winnepeg, Manitoba</i>
Kováî, George	<i>South Boston</i>
Laird, Henry Sperry	<i>Montpelier, Vt.</i>
Lanagan, Arthur Gregory	<i>Waltham</i>
Lane, Robert Joseph	<i>Wakefield</i>
Lantz, Carl Aldolph Alvin	<i>Websterville, Vt.</i>
Lasker, Reuben	<i>Hyde Park</i>
Leary, William Joseph	<i>North Attleboro</i>
LeBourdais, Joseph Thomas	<i>Brunswick, Me.</i>
Levenson, Louis Charles	<i>Dorchester</i>
Levine, Leo Israel	<i>Dorchester</i>
Levy, Clayman Carl	<i>Lynn</i>
Lightman, Percy	<i>Lowell</i>
Lipkind, Joshua Samuel	<i>Somerville</i>
Lloyd, Frederick Alton	<i>Somerville</i>
Looney, Daniel Edward	<i>East Weymouth</i>
Lowell, Grace Evelyn	<i>Wilmington</i>
Lynch, Joseph Francis	<i>Holyoke</i>
Macauley, Forrest Edward	<i>Gloucester</i>
MacBride, Charles Clarke	<i>Brockton</i>
Machanic, Morris Robert	<i>Burlington, Vt.</i>
Mackintosh, Robert Murdoch	<i>Ludlow</i>
Marrs, Francis Jerome	<i>Peabody</i>
Martin, James Harold	<i>Worcester</i>
McCabe, Frank James	<i>Waltham</i>
McCarthy, John Henry	<i>Dorchester</i>
McCarty, Frank Joseph	<i>Chelsea</i>

McCaul, Fred Leo	<i>Brockton</i>
McCormick, Everett Harold	<i>Holyoke</i>
McCoy, John Martin	<i>Charlestown</i>
McDonald, Hugh Joseph	<i>Southboro</i>
McGowan, Paul Clare	<i>Somerville</i>
McLean, Frank Malcolm	<i>Roxbury</i>
Merrill, Asa Forrest	<i>Lynn</i>
Miller, Eli	<i>Dorchester</i>
Moran, Augustine James	<i>Springfield</i>
Morse, Robert Gleason	<i>Rutland, Vt.</i>
Mulcahy, William Thomas	<i>Woburn</i>
Murphy, Charles Gerard	<i>Wollaston</i>
Murray, John Francis	<i>Dedham</i>
Muzzey, Ivor Paine	<i>Holbrook</i>
Nackley, Najeeb	<i>Allston</i>
Nelson, George Edwin	<i>Worcester</i>
Nevens, George Sanford	<i>Brunswick, Me.</i>
Nicholson, Benjamin	<i>Lawrence</i>
Nikula, Frank Oscar	<i>Fitchburg</i>
Norris, George Francis	<i>South Hampton</i>
Nutter, Doris	<i>Woodsville, N. H.</i>
O'Connor, Charles Francis	<i>Boston</i>
Oliver, Alfred Joseph	<i>Milford</i>
O'Meara, Catherine Virginia	<i>Boston</i>
O'Regan William Leo	<i>East Boston</i>
Pallas, Herbert Allen	<i>Providence, R. I.</i>
Patriquin, Forrest Douglas	<i>Newburyport</i>
Perri, Nicholas Peter	<i>Brooklyn, N. Y.</i>
Pines, Hyman	<i>Roxbury</i>
Pottle, Arthur Freeman	<i>Meredith, N. H.</i>
Pratt, Adelbert Merton	<i>Nashua, N. H.</i>
Pratt, Herbert Louis	<i>Nashua, N. H.</i>
Reed, Ralph Maltry	<i>Portsmouth, N. H.</i>
Reid, Thomas Joseph, A.B. (Boston College)	<i>East Weymouth</i>
Reid, William Francis	<i>Cambridge</i>
Reines, Harold Bear	<i>Chelsea</i>
Ring, Frank Edward	<i>Lynn</i>
Roberts, Russell	<i>Fair Haven, Vt.</i>
Ronan, Helen Elizabeth	<i>Salem</i>
Rouslin, John Jacob	<i>Providence, R. I.</i>
Sanders, Allbert Carter, Jr.	<i>Cambridge</i>
Saunders, Earl Augustus	<i>Deer Isle, Me.</i>
Scanlon, Thomas Michael	<i>Fitchburg</i>

Schwartz, Samuel Irving	<i>Manchester, England</i>
Scott, Frank Joseph	<i>Bradford</i>
Selinsky, Joseph Augustus	<i>Hudson</i>
Sessler, Albert Rank	<i>Jamaica Plain</i>
Sewell, Allan Neill	<i>Gibson, N. B.</i>
Shea, John Ignatius, A.B. (Boston College)	<i>Jamaica Plain</i>
Shea, Matthew Francis	<i>Cambridge</i>
Sherman, Max	<i>West Somerville</i>
Sherrard, Vernon Frederick	<i>Presque Isle, Me.</i>
Sherter, Leon Charles	<i>Boston</i>
Silvia, Joseph Azovido	<i>Fall River</i>
Skofield, Raymond Harold	<i>Houlton, Me.</i>
Smith, Howard Carlton	<i>Providence, R. I.</i>
Smith, Maynard Maxwell	<i>Milltown, Me.</i>
Spear, Harold Elmer	<i>St. Albans, Vt.</i>
Spencer, Bradford Jenckes	<i>South Manchester, Conn.</i>
Stephenson, Milton Cabot	<i>Belfast, Me.</i>
Sterling, Harry	<i>Boston</i>
Sterling, Louis	<i>Boston</i>
Stewart, Charles Edward	<i>Ft. William, Ont.</i>
Stockwell, Roy George	<i>North Adams</i>
Sullivan, George Thomas	<i>Dorchester</i>
Sundstrom, George Leroy	<i>Worcester</i>
Surabian, Mihran Charles	<i>Roxbury</i>
Tasse, Joseph René	<i>Worcester</i>
Taylor, Bernard Henry	<i>Springfield, Vt.</i>
Thresher, Irene Celeste	<i>Southbridge</i>
Thurman, Anna	<i>Dorchester</i>
Titus, Paul King	<i>West Medford</i>
Tomasi, Thomas	<i>Barre, Vt.</i>
Toupin, Charles Henri	<i>Lowell</i>
Turner, Charles Hamilton	<i>Hallowell, Me.</i>
Vasiliou, Stephen Theodore	<i>Boston</i>
Walsh, James Edward, Jr.	<i>Hudson</i>
Wark, Roy Henry	<i>Hardwick, Vt.</i>
Warren, Ralph Duncan	<i>Bath, Me.</i>
Weeks, Cornelius	<i>Hinsdale, N. H.</i>
Weeks, Hadley Fairfield	<i>Calais, Me.</i>
Weiner, Max	<i>Brooklyn, N. Y.</i>
Westhaver, Ellerd Hunt	<i>Atlantic</i>
White, Joseph Spencer	<i>Somerville</i>
Wilder, Herbert Whiton	<i>Hingham</i>
Wood, Leland Charles	<i>St. Albans, Vt.</i>

Wright, Herbert Francis	<i>North Attleboro</i>
Wright, Ida Ellen	<i>Natick</i>
Zirlstein, Israel	<i>Quincy</i>
Zwoden, Abram	<i>Providence, R. I.</i>

Post-Graduate

Brown, William Foster, D.M.D. (Tufts College)	<i>Boston</i>
-----------------------------------------------	---------------

SUMMARY

Trustees	28
--------------------	----

CORPS OF INSTRUCTION

Emeriti	10
President and Professors	51
Associate Professors	7
Assistant Professors	40
Lecturers	5
Instructors	107
Demonstrators	8
Assistants	49
Teaching Fellows	2
Total engaged in work of instruction	— 279
Other Officers, not previously counted	39
	<u>318</u>

STUDENTS

SCHOOL OF LIBERAL ARTS:

Seniors	22
Juniors	37
Sophomores	45
Freshmen	103
Special	1
Unclassified	13—221

JACKSON COLLEGE FOR WOMEN:

Seniors	14
Juniors	14
Sophomores	22
Freshmen	58
Specials	2
Unclassified	5—115

ENGINEERING SCHOOL:

Seniors	22
Juniors	39
Sophomores	48
Freshmen	94
Special	1
Unclassified	8—212

BROMFIELD-PEARSON SCHOOL

22

CRANE THEOLOGICAL SCHOOL

15

GRADUATE SCHOOL

7

ONE-YEAR PRE-MEDICAL COURSE

155

MEDICAL SCHOOL:

Fourth Year	87
Third Year	80
Second Year	130
First Year	112—409

DENTAL SCHOOL:

Third Year	127
Second Year	218
First Year	242
Post-Graduate	1—588

Total registration of students	1744
------------------------------------------	------

Names appearing twice	7
---------------------------------	---

Total number of students	<u>1737</u>
------------------------------------	-------------

APPENDIX

A Statement of the Requirements in the Subjects that may be counted for Admission to Tufts College

Elementary English.

Three units.

Requirements for 1917-1919

The study of English in school has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence and appreciation.

Grammar and Composition.

One and one-half units.

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

Literature.

One and one-half units.

The second object is sought by means of two lists of books headed respectively *Reading* and *Study*, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some

of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

READING (A)

The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group I:

Group I. *Classics in Translation*.—The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; the Aeneid. The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

For any selection from this group a selection from any other group may be substituted.

Group II. *Shakespeare*.—Midsummer Night's Dream; Merchant of Venice; As you Like It; Twelfth Night; The Tempest; Romeo and Juliet; King John; Richard II; Richard III; Henry V; Coriolanus; Julius Cæsar*; Macbeth*; Hamlet*.

Group III. *Prose Fiction*. Malory's Morte d'Arthur (about 100 pages); Bunyan's Pilgrim's Progress, Part I; Swift's Gulliver's Travels (voyages to Lilliput and to Brobdingnag); DeFoe's

* If not chosen for study under (B).

Robinson Crusoe, Part I; Goldsmith's Vicar of Wakefield; Frances Burney's Evelina; Scott's Novels (any one); Jane Austen's Novels (any one); Maria Edgeworth's Castle Rackrent, or The Absentee; Dickens's Novels (any one); Thackeray's Novels (any one); George Eliot's Novels (any one); Mrs. Gaskell's Cranford; Kingsley's Westward Ho! or Hereward, the Wake; Reade's The Cloister and the Hearth; Blackmore's Lorna Doone; Hughes's Tom Brown's Schooldays; Stevenson's Treasure Island, or Kidnapped, or Master of Ballantrae; Cooper's Novels (any one); Poe's Selected Tales; Hawthorne's The House of the Seven Gables, or Twice-Told Tales, or Mosses from an Old Manse; a collection of Short Stories by various standard writers.

Group IV. *Essays, Biography, etc.*—Addison and Steele's The Sir Roger de Coverley Papers, or Selections from the Tatler and Spectator (about 200 pages); Boswell's Selections from the Life of Johnson (about 200 pages); Franklin's Autobiography; Irving's Sketch Book (about 200 pages), or Life of Goldsmith; Southey's Life of Nelson; Lamb's Essays of Elia (about 100 pages); Lockhart's Life of Scott (about 200 pages); Thackeray's Lectures on Swift, Addison, and Steele in the English Humourists; Macaulay's Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederic the Great, Madame d'Arblay (any one); Trevelyan's Life of Macaulay (about 200 pages); Ruskin's Sesame and Lilies, or Selections (about 150 pages); Dana's Two Years before the Mast; Selections from Lincoln, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter to Horace Greeley, together with a brief memoir or estimate; Parkman's The Oregon Trail; Thoreau's Walden; Lowell's Selected Essays (about 150 pages); Holmes's The Autocrat of the Breakfast Table; Stevenson's An Inland Voyage, and Travels with a Donkey; Huxley's Autobiography, and selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; a collection of essays by Bacon, Lamb,

DeQuincey, Hazlitt, Emerson, and later writers; a collection of Letters by various standard writers.

Group V. *Poetry*. Palgrave's Golden Treasury (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's Golden Treasury (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley (If not chosen for study under B); Goldsmith's The Traveller, and the Deserted Village; Pope's The Rape of the Lock; a collection of English and Scottish Ballads, as, for example, some Robin Hood ballads, The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens, and a selection from later ballads; Coleridge's The Ancient Mariner, Christabel, and Kubla Khan; Byron's Childe Harold, Canto III or IV, and The Prisoner of Chillon; Scott's The Lady of the Lake, or Marmion; Macaulay's The Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivry; Tennyson's The Princess, or Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, "De Gustibus"—, Instans Tyrannus; Arnold's Sohrab and Rustum, and the Forsaken Merman; Selections from American Poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

STUDY (B)

This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. The books provided for study are arranged in four groups, from each of which one selection is to be made.

Group I. *Drama*.—Shakespeare's Julius Cæsar, Macbeth, Hamlet.

Group II. *Poetry*.—Milton's L'Allegro, Il Penseroso, and either Comus or Lycidas; Tennyson's The Coming of Arthur, The Holy Grail, and The Passing of Arthur; the selections from Wordsworth, Keats, and Shelley in Book IV of Palgrave's Golden Treasury (First Series).

Group III. *Oratory*.—Burke's Speech on Conciliation with America; Macaulay's Two Speeches on Copyright, and Lincoln's Speech at Cooper Union; Washington's Farewell Address, and Webster's First Bunker Hill Oration.

Group IV. *Essays*.—Carlyle's Essay on Burns, with a selection from Burns's Poems; Macaulay's life of Johnson; Emerson's Essay on Manners.

Examination.

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination will be divided into two parts:

1. Grammar and Composition.

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English, which one should know in distinction from current errors. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps eight or ten, from which the candidate may make his own selections. He will not be expected to write more than four hundred words per hour.

2. Literature.

The examination in literature will include:

(a) General questions designed to test such a knowledge and appreciation of literature as may be gained by fulfilling the requirements defined under READING (A), above. The candidate will be required to submit a list of the books read in preparation for the examination, certified by the principal of the school in which he was prepared; but this list will not be made the basis of detailed questions.

(b) A test on the books prescribed for study, which will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works, and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

Elementary German.

Two units.

It is expected that the candidate will have studied the subject in a systematic course for two school years, each covering the equivalent of 120 sixty-minute periods, during which special attention will have been given to pronunciation and to writing from dictation, as well as to the use of clear and idiomatic English in translation.

The examination will consist of two parts:

(a) The translation into German of easy English sentences, to test the candidate's knowledge of the following subjects: the declension of nouns, adjectives, and pronouns; the conjugation of weak and the more frequently recurring strong verbs; the prepositions and cases which they govern; the simpler uses of modal auxiliaries; the elementary rules of syntax and word order. Proficiency may also be tested by questions on these topics.

(b) The translation at sight of easy German prose. It is believed that the requisite facility may be acquired by the reading

of from two to three hundred pages of easy German, with preference given to narrative style.

[The following list is made up from works suitable for reading in preparation for this examination; Anderson's *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Schwiegersonn*; Heyse's *Hochzeit auf Capri*; Storm's *Immensee*; Leander's *Träumereien*; Roth's *Ein nordischer Held*; Benedix, *Der Prozess*; Wilhelmi's *Einer muss heiraten*; Fulda's *Das verlorene Paradies*.]

In place of the examination in Elementary German a candidate may offer the examination of the College Entrance Examination Board in German A.

Intermediate German.

One unit.

It is expected that the candidate will have pursued, in addition to the work done in preparation for Elementary German, an additional year's work of 120 hours. He should thus have acquired the ability to translate with considerable facility ordinary prose, similar to that of the preparatory course, and to answer briefly in German questions asked in that language by the instructor. Oral practice and dictation should be continued in this third year and a somewhat thorough acquaintance obtained with the rules of syntax, particularly with the subjunctive and infinitive moods; attention should also be given to the simpler facts of word formation — roots, prefixes and suffixes.

The examination will consist of two parts:

(a) The translation into German of a connected passage of simple English, paraphrased from some German text.

(b) The translation at sight of passages of ordinary German prose. It is believed that the requisite facility may be acquired by reading in addition to the amount stated for Elementary German, about four hundred pages of narrative and dramatic prose and verse.

[The following list is made up from works suitable for reading in preparation for this examination: Ebner-Eschenbach's *Freiherren von Gemperlein*; Gerstäcker's *Irrfahrten*; Hoffmann's *Historische Erzählungen*; Meyer's *Gustav Adolfs Page*; Riehl's *Burg Neideck und Fluch der Schönheit*;

Freitag's Aus dem Staat Friedrichs des Grossen, and die Journalisten; Schiller's Geisterseher, Neffe als Onkel, and Balladen; Scheffel's Trompeter von Säkkingen.]

In place of the examination in Intermediate German a candidate may offer the examination of the College Entrance Board in German B.

Advanced German.

One unit.

This examination is open to candidates who have had the equivalent of a four years' course, with an average of 120 full hour periods per year. At the end of this course the student should be able to read, after brief inspection, any (save technical) modern German literature, if free from unusual textual difficulties; to put into German a passage of simple English prose, or to write in that language a brief theme on some assigned topic within his range; and to answer in German questions relating to the lives and certain works of the authors studied.

The examination will consist of three parts:

(a) The writing in German of a paragraph, original or translated.

(b) The translation into English of extracts from at least three distinctively different authors. It is believed that the requisite facility may be acquired by reading in addition to the amount mentioned under Intermediate German, about five hundred pages of good literature in prose and verse.

(c) An oral test of proficiency in hearing and pronouncing German.

[The following list is made up from works suitable for reading in preparation for this examination: Fouque's Undine; Scheffel's Ekkehard; Ludwig's Zwischen Himmel und Erde; Freytag's Soll und Haben; Hauff's Lichtenstein; Goethe's Dichtung und Wahrheit (extracts), Die neue Melusine, Hermann und Dorothea; Lessing's Minna von Barnhelm, Schiller's Wilhelm Tell, Jungfrau von Orleans, Geschichte des dreissigjährigen Krieges (third book); Grillparzer's Sappho; Kleist's Prinz von Homburg; Fulda's Talisman.]

In place of the examination in Advanced German, a candidate may offer the examination of the College Entrance Examination Board in German BC.

Elementary French.*Two units*

It is expected that the candidate will have studied the subject in a systematic course for two school years, each covering the equivalent of 120 sixty-minute periods, during which special attention will have been given to pronunciation and to writing from dictation, as well as to the use of clear, idiomatic English in translation.

The examination will consist of two parts :

(a) The translation into French of easy English sentences to test the candidate's knowledge of the following subjects: the conjugation of the regular and the most frequently recurring irregular verbs; the forms and positions of personal pronouns; the uses of the other pronouns and of possessive, demonstrative, and interrogative adjectives; the variation of nouns and adjectives for gender and number (except rare cases); the partitive construction. Proficiency may also be tested by questions on these topics.

(b) The translation at sight of a passage of easy French. It is believed that the requisite facility may be acquired by the reading of not less than three hundred and fifty pages of simple prose, with preference given to narrative.

[The following list is made up from works suitable for reading in preparation for this examination: The easier stories of Daudet, Verne, and Erckmann-Chatrian; Foa's *Le petit Robinson* and *Contes Biographiques*; Enault's *Le Chien du Capitaine*; Malot's *Sans Famille*; About's *Le Roi des Montagnes*; Labiche and Martin's *La Poudre aux Yeux* and *Le Voyage de M. Perrichon*; Sarcey's *Le Siècle de Paris*.]

In place of the examination in Elementary French a candidate may offer the examination of the College Entrance Examination Board in French A.

Intermediate French.*One unit*

It is expected that the candidate will have passed, in addition to the work done in preparation for Elementary French, an additional year's work of 120 hours. He should thus have acquired the ability to translate with facility ordinary prose or verse similar to that of the preparatory course, and to answer briefly

in French questions asked in that language by the instructor. Oral practice and dictation should therefore be continued in this third year, together with a more detailed study of syntax, particularly of the use of moods and tenses, and of word formation and common idiomatic phrases.

The examination will consist of two parts :

(a) The translation into French of a connected passage of simple English.

(b) The translation at sight of passages of ordinary French prose or dramatic verse. It is believed that the requisite facility may be acquired by reading, in addition to the amount required for Elementary French, not less than four hundred pages of prose and verse, preference still being given to narrative form.

[The following list is made up from works suitable for reading in preparation for this examination: About's stories; Daudet's *La Belle-Nivernaise*; La Brète's *Mon Oncle et mon Curé*; Loti's *Pêcheur d'Islande*; George Sand's *Les Maîtres Mosaïstes*; Mérimée's *Colomba*; Thierry's *Récits des Temps mérovingiens*; Thiers's *L'Expédition de Bonaparte en Egypte*; Vigny's *La Canne de Jonc*; Corneille's *Horace*; Molière's *L'Avare* and *Le Bourgeois Gentilhomme*; Racine's *Athalie*; Augier and Sandeau's *Le Gendre de M. Poirier*; Coppée's poems.]

In place of the examination in Intermediate French a candidate may offer the examination of the College Entrance Examination Board in French B.

Advanced French.

One unit.

This examination is open to candidates who have had the equivalent of a four year's course, with an average of 120 full hour periods per year. At the end of this course the student should be able to read at sight, with the help of a vocabulary of special or technical expressions, difficult French of not earlier than the seventeenth century; to write in French a short essay on some simple subject connected with the works read in preparation, and to take part in a simple conversation in French.

The examination will consist of three parts :

(a) The writing in French of an original passage of at least 150 words on some assigned subject.

(b) The translation into English of extracts from at least three distinctly different authors. It is believed that the requisite facility may be acquired by reading, in addition to the amount mentioned under Intermediate French, from six hundred to one thousand pages of standard French, inclusive of works merely commented upon in class.

(c) An oral test of proficiency in hearing and pronouncing French.

[The following list is made up from works suitable for reading in preparation for this examination: Taine's *Origines de la France contemporaine*; Sainte-Beuve's *Causeries du Lundi* (Holt Ed.); Voltaire's *Prose* (Heath Ed.); Balzac's *La Recherche de l'Absolu*; Dumas' *Les trois Mousquetaires* (Ginn Ed.); Pelissier's *Anthologie des Prosateurs français contemporains* (Paris, Delagrave Ed.); Racine's *Andromaque*, *Britannicus*, *Athalie*; Corneille's *Cinna* and *Polyeucte*; Molière's *Les Précieuses Ridicules*; Beaumarchais' *Mariage de Figaro*; Hugo's *Hernani* and *Ruy Blas*.]

In place of the above, a candidate may offer the examination of the College Entrance Examination Board in French BC.

Elementary Latin.

Two units.

The Latin reading shall be not less in amount than Cæsar, Gallic War, I—IV, and should be selected by the schools from Cæsar (Gallic War and Civil War) and Nepos (Lives). Candidates will be examined in translation at sight of passages from the above authors, also in grammar and composition.

In place of the examination for two units in Elementary Latin a candidate may offer the following examination of the College Entrance Examination Board :

Latin, 3.

Intermediate Latin.

One unit.

The Latin reading, without the prescription of particular authors and works, shall be not less in amount than Cæsar, Gallic War, I—IV, and Cicero, the orations against Catiline, for the Manilian Law, and for Archias; this reading should be selected from Cæsar (Gallic War and Civil War) and Nepos (Lives), Cicero (orations, letters, and *De Senectute*) and Sallust (*Catiline* and *Jugurthine War*).

Candidates will be examined in translation at sight of passages from Cæsar and Cicero. The vocabulary, constructions, and range of ideas will be suited to the preparation secured by the reading indicated above. There will also be an examination on the following prescribed reading: Cicero, orations for the Manilian Law and for Archias.

Or the requirement in poetry, as defined under Advanced Latin, may be offered as optional in place of the third year prose.

The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examination in composition will be such as are common in the reading of the years covered by the examination.

In place of the examination for three units in Intermediate Latin a candidate may offer the following examinations of the College Entrance Examination Board:

Latin, 1, 2, and 4, or 1, 2 and 4 combined.

Advanced Latin.

One unit.

I. AMOUNT AND RANGE OF THE READING REQUIRED

1. The Latin reading, without regard to the prescription of particular authors and works, shall be not less in amount than Cæsar, Gallic War, I—IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, Æneid, I—VI.

2. The amount of reading specified above shall be selected by the schools from the following authors and works: Cæsar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War); Vergil (Bucolics, Georgics, and Æneid) and Ovid (Metamorphoses, Fasti, and Tristia).

II. SUBJECTS AND SCOPE OF THE EXAMINATIONS

1. *Translation at sight.* Candidates will be examined in translation at sight of both prose and verse. The vocabulary,

constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above.

2. *Prescribed Reading.* Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, *Æneid*, I, II, and either IV or VI at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

3. *Grammar and Composition.* See statement under Intermediate Latin.

In place of the examination for four units in Latin a candidate may offer the following examinations of the College Entrance Examination Board:

Latin, 1, 2, 4, and 5, or 1, 2 and 4 combined, and 5.

SUGGESTIONS CONCERNING PREPARATION

Exercises in translation at sight should begin in school with the first lessons in which Latin sentences of any length occur, and should continue throughout the course with sufficient frequency to insure correct methods of work on the part of the student. From the outset particular attention should be given to developing the ability to take in the meaning of each word—and so, gradually, of the whole sentence—just as it stands; the sentence should be read and understood in the order of the original, with full appreciation of the force of each word as it comes, so far as this can be known or inferred from that which has preceded and from the form and the position of the word itself. The habit of reading in this way should be encouraged and cultivated as the best preparation for all the translating that the student has to do. No translation, however, should be a mechanical metaphrase. Nor should it be a mere loose

paraphrase. The full meaning of the passage to be translated, gathered in the way described above, should finally be expressed in clear and natural English.

A written examination cannot test the ear or tongue, but proper instruction in any language will necessarily include the training of both. The school work in Latin, therefore, should include much reading aloud, writing from dictation, and translation from the teacher's reading. Learning suitable passages by heart is also very useful, and should be more practised.

The work in composition should give the student a better understanding of the Latin he is reading at the time, if it is prose, and greater facility in reading. It is desirable, however, that there should be systematic and regular work in composition during the time in which poetry is read as well; for this work the prose authors already studied should be used as models.

Elementary Greek.

Two units.

The examination will be adapted to the proficiency of those who have studied Greek in a systematic course for two years. It will consist of two parts, which cannot be taken separately :

(a) The translation at sight of passages of simple Attic prose.

(b) An examination on Xenophon's Anabasis, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language.

Before taking the elementary examination the candidate should have read, in addition to the usual grammar work, at least four books of Xenophon's Anabasis, or an equivalent.

In place of the examination in Elementary Greek a candidate may offer the following examinations of the College Entrance Examination Board.

Greek A i and ii, and B.

Advanced Greek.

One unit.

The examination will be adapted to the proficiency of those who have studied Greek in a systematic course for three years. The two parts of the examination may be taken separately :

(a) The translation at sight of an average passage of Homer ; with questions on ordinary forms, constructions, and idioms, and on prosody.

(b) The translation into Attic prose of a passage of connected English narrative. The passage set for translation will be based on some portion of the Greek prose works usually read in preparation for college.

Before taking the examination in Advanced Greek the candidate should have completed at least four books of Xenophon's *Anabasis*, or their equivalent in Attic prose, and six books of Homer's *Iliad*, or their equivalent in the *Odyssey*. It is recommended that Greek composition accompany all stages of the preparation, and that the pupil be practiced in reading Greek aloud from the beginning of the course.

In place of the examination in Advanced Greek a candidate may offer the following examinations of the College Entrance Examination Board.

Greek A i, B, C or CH, and F.

Elementary History.

One unit.

One of the following:

1. The History of Greece and Rome. (a) The history of Greece to the death of Alexander, with due reference to Greek life, literature, and art, as treated in the histories of Botsford, Oman, West, or Myers. (b) The history of Rome to the accession of Commodus, with due reference to Roman literature and government. Such texts as those of Morey, Botsford, West, or Allen will indicate the character of the work desired.

While the periods indicated above will be accepted as satisfying the entrance requirements in ancient history, it is strongly recommended that the study of the history of Greece be continued to the conquest of Greece by Rome, and that the history of Rome be pursued to the fall of the Western Empire.

This does not necessarily imply any increase in the time devoted to Greek and Roman history.

2. The History of England. The history of England, with due reference to social and political development. The histories of Andrews, Larned, and Montgomery will indicate the character of the work expected.

3. The History and Government of the United States. Such texts as those of McLaughlin, Johnston, Channing, and Guitteau should be used.

It is recommended that all candidates for admission to the courses leading to the degree of A.B. or B.D. should offer Greek and Roman history.

The elementary requirement in history implies one year's work of not less than five periods a week. A note-book of not less than fifty written pages, based upon three hundred pages of collateral reading, must be presented at the time of examination. Equivalents for the subjects named above will be accepted, but candidates desiring to offer substitutes must give notice to the Secretary of the Faculty at least one month previous to the time set for the examination. Work in the text-book should be constantly accompanied by collateral reading. The attention of teachers is called to the Report of the Committee of Seven, published by the Macmillan Company, New York, under the title, "The Study of History in Schools," and to the "History Syllabus for Secondary Schools" published by Heath and Co., Boston.

In place of any one of the examinations described above a candidate may offer any one of the four examinations in History of the College Entrance Examination Board.

Advanced History.

One of the following:

1. The History of Greece and Rome, as described above, for those only who have offered English history or the history and government of the United States as primary subjects.

2. The History of England as described above, for those who have not offered English history as a primary subject.

3. The History and Government of the United States, for those who have not offered the History and Government of the United States as a primary subject.

Each of these subjects requires one year's study of not less than five recitation-periods a week. A note-book of not less than fifty written pages, based upon three hundred pages of collateral reading, must be presented at the time of the examination. Equivalents for the subjects outlined above will be accepted, upon due notice, as indicated above under Elementary History.

In place of any of the examinations in Advanced History a candidate may offer any one of the four examinations in History of the College Entrance Examination Board, provided that the subject so offered has not been accepted for the Elementary History requirement.

Mathematics.

A knowledge of the metric system, and ability to perform accurately the ordinary processes of arithmetic, are presumed.

A 1. Algebra to quadratics.

One unit.

The four fundamental operations for rational algebraic expressions.

Factoring, determination of highest common factor and lowest common multiple by factoring.

Fractions, including complex fractions, and ratio proportion.

Linear equations, both numerical and literal, containing one or more unknown quantities.

Problems depending on linear equations.

Radicals, including the extraction of the square root of polynomials and of numbers.

Exponents, including the fractional negative.

A 2. Algebra. Quadratics and beyond.

One unit.

Quadratic equations, both numerical and literal.

Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations.

Problems depending on quadratic equations.

The binomial theorem for positive integral exponents.

The formulas for the n th term and the sum of the terms of arithmetical and geometric progressions, with applications.

c. Plane Geometry, including the usual theorems on straight lines, angles, rectilinear figures, circles, and regular polygons; similar triangles and proportion; construction; original exercises in demonstration; numerical problems in mensuration.

One unit.

B. Advanced Algebra: Permutations and combinations; complex numbers and the graphical representation of sums and differences; determinants including the use of minors, and the solution of linear simultaneous equations; solution of numerical equations of higher degree and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method. Credit in Advanced Algebra is given only on examination.

One-half unit.

D. Solid Geometry, including properties of straight lines and planes, dihedral and polyhedral angles; of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres; of spherical triangles, and the measurement of surfaces and solids.

One-half unit.

F. Plane Trigonometry, including the definition and relations of the six trigonometrical functions as ratios, proof of important formulæ, solution of trigonometric equations of a simple character, theory of logarithms and use of tables, solution of right and oblique plane triangles.

One-half unit.

In place of the examinations in Mathematics a candidate may offer the examinations of the College Entrance Examination Board as follows:

Math. A for A; Math. C for C; Math. B for B; Math. D for D; Math. F for F.

Physics.

One unit.

The unit in Physics consists of at least 120 periods of sixty minutes each. Time spent in the laboratory shall be counted at one-half its face value. The course of instruction should

include: (1) The study of one standard text-book. (2) Individual laboratory work consisting of experiments requiring at least the time of 30 double periods. Each student should perform at least 30 experiments, so distributed as to cover as fully as possible the subject matter of the text-book.

In lieu of the presentation of the laboratory note-book, at the time of the examination, the candidate must present a certificate in the following form:

TEACHER'S CERTIFICATE

..... School
..... 19

I certify that has personally performed and properly recorded in a suitable note-book experiments in the physical laboratory of the School, during the year

The entire course has occupied time equal to periods of 60 minutes each, of which hours have been given to the laboratory work and hours to lecture and recitation work.

Signed

Teacher of Physics.

The teacher may here enter the final grade of per cent.

In place of the above, candidates may present the examination of the College Entrance Examination Board in Physics.

Chemistry.

One unit.

Preparation for this requirement presupposes a course in general inorganic chemistry (non-metals and metals) of not less than five periods a week for a year. The amount of class work should equal that in *An Introduction to the Study of Chemistry*, by Ira Remsen, and the experiments should be equivalent to those in *Remsen's Laboratory Manual*. Time spent in the laboratory shall be counted at one-half its face value. The experiments must be performed by the student, and a certified laboratory note-book must be presented at the time of the examination.

In place of the above, candidates may offer the examination of the College Entrance Examination Board in Chemistry.

Biology, Botany and Zoology.

One unit each.

In Biology, Botany and Zoology the examiners give more weight to the character of the work and the development of scientific habits than to the time spent; but at least five periods a week for a year must be given to each subject presented, and of this at least a half should consist of laboratory work. Certified copies of laboratory note-books must be presented. The work should be in structural and physiological lines and should include a detailed study of at least ten types. While it is desirable that these types should represent the chief phyla of the plant and animal kingdoms, it is most important that through their study the student shall become familiar with the experimental or inductive method of work.

In place of the examinations in Biology, Botany and Zoology, candidates may offer the examinations in Biology, Botany and Zoology of the College Entrance Examination Board.

Geology or Geography.

One unit.

1. **Geology:** Le Conte's Elements of Geology or a book of equivalent grade, including a similar account of evolutionary theory.

2. **Geography:** Davis, or book of equivalent grade.

At least five periods a week for a year must have been given to the subject presented. There should have been some laboratory work and excursions. Certified copies of note-books of laboratory work and excursions must be presented.

In place of the examination in Geography, candidates may offer the examination in Geography of the College Entrance Examination Board.

Freehand Drawing.

One unit or one-half unit.

Such a knowledge of the fundamental principles of perspective is required as shall enable the student to draw a simple geometric figure with or without the use of a model. Certified drawings from a systematic course must be submitted for approval and the student may be examined on all points in doubt.

In place of the above the candidate may offer the examination in drawing of the College Entrance Examination Board.

Mechanical Drawing.*

One unit.

Accuracy and neatness in drawing is of the first importance, and no amount of work will make amends for neglect in these respects. The student must be familiar with the use of ordinary instruments, and able to solve geometrical problems with accuracy and rapidity. He must have an elementary knowledge of projection, intersection and development, and should also be practiced in the drawing of the ellipse, the parabola, and the hyperbola. The suggested course is included in the first one hundred pages of Anthony's Elements of Mechanical Drawing. Certified drawings must be submitted for approval and the student may be examined on all points in doubt.

Shopwork.*

The following units are given for courses satisfactorily pursued in well organized and fully equipped manual training or technical high schools in which the broad foundations of manual and graphic culture are given. The elementary work in the several courses must be thoroughly covered, and no credit will be given for premature engineering work.

Joinery	<i>One-half unit</i>
Wood Turning and Elementary Pattern Making	<i>One-half unit</i>
Forging	<i>One-half unit</i>
Bench and Machine Metal Fitting	<i>One-half unit</i>

Details of the work required for preparation in the above courses may be obtained by application to the Department of Mechanic Arts.

Elementary Economics.

One-half unit.

Preparation for Economics presupposes that the candidate has studied the subject in a systematic course of at least three periods a week for one full year. Credit in Economics will be given only on examination. The examination will be based

*Not more than two units may be counted by any candidate in the subjects of Drawing and Shopwork.

upon such text-books as Bullock's or Seager's Introduction to the Study of Economics. A knowledge of civics and, particularly, modern industrial history is of great value in supplementing the study of economic theory.

Music.

Entrance credit in Music is given only on examination. Not more than one unit in Music may be counted by any candidate.

(A) MUSICAL APPRECIATION. *One-half unit.*

The examination will be adapted to the attainment of those who have had one year's systematic training, with three lessons a week, or its equivalent. The candidate is expected to have (1) a general knowledge of the principal musical forms—song, classic dance, fugue, sonata (all movements), symphony—and of their historical development; (2) a general knowledge of the lives and environment of at least ten composers, including Bach, Mozart, Beethoven, Schubert, Chopin, and five of the following: Purcell, Handel, Gluck, Haydn, Cherubini, Weber, Rossini, Glinka, Mendelssohn, Schumann, Wagner, Verdi; (3) familiarity with certain designated works, the list of which may be had on application to the Department of Music. In the examination on these works, the candidate will be expected to identify characteristic portions of the works set, when played in any key by the examiner; and to give intelligent information concerning the form and character of the works themselves. The test will not require ability to perform, nor to read from printed music.

(B) HARMONY. *One-half unit.*

The examination will be adapted to the proficiency of those who have had one year's systematic training, with three lessons a week, or its equivalent. The candidate should have acquired (1) the ability to harmonize, in four vocal parts, simple melodies of not fewer than eight measures, in soprano or in bass: these melodies will require a knowledge of triads and inversions, of diatonic seventh chords and inversions, in the major and minor modes; and of modulation, transient or complete, to nearly-

related keys; (2) analytical knowledge of ninth chords, all non-harmonic tones, and altered chords (including augmented chords). [Students are encouraged to apply this knowledge in their harmonization.]

It is urgently recommended that systematic ear-training (as to interval, melody, and chord) be a part of the preparation for this examination. Simple exercises in harmonization at the pianoforte are recommended. The student will be expected to have a full knowledge of the rudiments of music, scales, intervals, and staff-notation, including the terms and expression-marks in common use.

(D) PIANOFORTE, OR (E) VOICE, OR (F) VIOLIN. *One-half unit.*

The examination in each of these subjects will consist of a test in theory, and a test in performance. The former will be conducted in writing, and will be adapted to the proficiency of those who have had one year's systematic training, with one lesson a week, or its equivalent. The candidate should have acquired:

A knowledge of the rudiments of music, scales, intervals, and staff-notation, including the terms and expression-marks in common use; the ability to analyze the harmony and form of hymn-tunes and simplest pieces for the pianoforte, involving triads and the dominant seventh chord and their inversions, passing tones, and modulation to nearly-related keys; the ability to harmonize, on paper, in four vocal parts, melodic fragments involving the use of triads and the dominant seventh chord and their inversions in major keys.

As a basis of the test in performance, the candidate is to furnish a detailed statement from the teacher, showing the course of instrumental or vocal study pursued.

In place of the above, candidates may offer the corresponding examination of the College Entrance Examination Board: Music A, B, and D or E or F.

EXAMINATIONS OF THE COLLEGE ENTRANCE EXAMINATION BOARD

In June, 1917, the admission examinations of this College will be the examinations of the College Entrance Examination Board, of which Tufts College is a member. The examinations will be held during the week June 17-22, 1917, in Robinson Hall, Tufts College, Massachusetts.

All applications for examinations must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., and must be made upon a blank form, to be obtained from the Secretary of the Board upon application.

If the application is received sufficiently early the examination fee will be \$5.00 for candidates examined in the United States and Canada, and \$15.00 for candidates examined outside of the United States and Canada. The fee should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

The applications and fees of candidates who wish to be examined outside of the United States and Canada must reach the Secretary of the Board at least five weeks in advance of the first day of the examinations, that is, on or before Monday, May 14, 1917.

The applications and fees of candidates who wish to be examined in the United States at points west of the Mississippi River must be received at least three weeks in advance of the examinations, that is, on or before Monday, May 28, 1917.

The applications and fees of candidates who wish to be examined in the United States at points east of the Mississippi River, or on the Mississippi River, must be received at least two weeks in advance of the first day of the examinations, that is, on or before Monday, June 4, 1917.

When the candidate has failed to obtain the required blank form of application for examination the usual examination fee will be accepted if the fee arrives not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination centre at which he

wishes to present himself, and a list of all the subjects in which he may have occasion to take the Board's examinations.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidates concerned, but only upon payment of \$5.00 in addition to the usual fee.

A list of the places at which examinations are to be held by the Board in June, 1917, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

For the convenience of those who present the examinations of the College Entrance Examination Board, the following table of equivalents is presented:

TUFTS COLLEGE ENTRANCE SUBJECTS	COLLEGE ENTRANCE EXAMINATION BOARD EQUIVALENT
English 1	English 1
English 2	English 2
Elementary German	German A
Intermediate German	German B
Advanced German	German BC
Elementary French	French A
Intermediate French	French B
Advanced French	French BC
Elementary Latin	Latin 3
Intermediate Latin	Latin 1, 2 and 4, or 1, 2 and 4 combined
Advanced Latin	Latin 1, 2, 4 and 5, or 1, 2 and 4 combined, and 5
Elementary Greek	Greek A i and ii B, and G
Advanced Greek	Greek A i, B, C or CH, F, and G
Elementary History	History A, B, C, or D
Advanced History	History A, B, C, or D
Mathematics	Mathematics A1
Algebra A1	Mathematics A 2
Algebra A 2	Mathematics C
Plane Geometry	Mathematics B
Advanced Algebra	Mathematics D
Solid Geometry	Mathematics F
Trigonometry	Physics
Physics	Chemistry
Chemistry	Botany
Botany	Zoology
Zoology	Biology
Biology	Geography
Geology or Geography	Freehand Drawing
Freehand Drawing	Mechanical Drawing
Mechanical Drawing	Music B, D, E, F
Music B, D, E, F	

INDEX

- Absences, 28
- Admission, Requirements for, 21
 - A.B. Degree, 21
 - B.S. Degree, 21
 - S.T.B. Degree, 21
 - Bromfield-Pearson School, 122
 - Certificate, By, 22
 - Dental School, 196
 - Elective Group, 21
 - Engineering, Courses in, 21
 - Examination, By, 23, 142
 - Free Margin Group, 21
 - From Other Colleges, 24, 172, 190
 - General Information relating to, 22
 - Jackson College, 81
 - Medical School, 179
 - Methods, 22
 - Pre-Medical course, 146
 - Prescribed Group, 21
 - Theology, Course in, 123
- Anaesthesia and Extraction, Instruction in, Dental School, 206
- Anatomy, Instruction in, 183, 202
 - In School of Liberal Arts, 67
- Application for Admission
 - One-Year Pre-Medical Course, 148, 153
 - Medical School, 180
 - Dental School, 196
- Applied Christianity, Instruction in, Theological School, 128
- Archaeology, Classical, Instruction in, 75
- Associated Schools, 11
 - Calendar, 13
 - Faculty, 14
- Athletic Fields, 44
- Athletics, 29
- Awards of Prizes 1915-16, 214
- Bacteriology, 185, 204
- Bandaging, 189
- Biological Chemistry, Instruction in, 185
 - Laboratory, 6
- Biology, Instruction in Liberal Arts, 66
 - Entrance Requirements in, 287
 - Instruction in, Pre-Medical Course, 149
- Botany, Entrance Requirements in, 287
 - Instruction in, 74
- Bromfield-Pearson School, 121, 122
 - Admission Requirements, 122
- Buildings
 - Barnum Museum, 44
 - Bromfield-Pearson Building, 45
 - Chemical Building, 45
 - Dormitories, 32, 86
 - Eaton Memorial Library, 43
 - Engineering Laboratories, 45
 - Goddard Gymnasium, 44
 - Jackson College, 85
 - Medical-Dental, 170
 - Metcalf Hall, 85
 - Miner Hall, 43
 - Packard Hall, 43
 - Robinson Hall, 45
- Calendar, Associated Schools, 13
 - Medical-Dental Schools, 157
 - One-Year Pre-Medical Course, 142
- Certificate, Admission by, 22
- Changes in Requirements, 4, 184, 200
- Chemistry, Four-year Course in, 53
 - Biological, Medical School, 185
 - Entrance Requirements in, 286
 - Instruction in, School of Liberal Arts, 107
 - Instruction in, Engineering School, 107
 - Instruction in, Dental School, 203
 - Instruction in, Pre-Medical Course, 149
- Chemical Engineering, 95, 107
- Children, Diseases of, Instruction in, 179
- Civil Engineering, 95, 110
- Classical History and Archaeology, Instruction in, 75
- Clinical Facilities, 170
- Clinical Medicine, 188
- Commencement Parts, 213
- Committees
 - Arts and Sciences, 20
 - Crane Theological School, 123
 - Dental School, 193
 - Engineering School, 89
 - Graduate School, 133
 - Jackson College, 81
 - Liberal Arts, School of, 47
 - Medical School, 175
 - One-Year Pre-Medical Course, 141
 - Student Employment, 42
 - Courses, Outline of
 - Crane Theological School, 125
 - Dental School, 198
 - Engineering School, 93
 - General Course, Leading to the degree of Bachelor of Arts or Bachelor of Sciences, 51
 - Jackson College, 180
 - Medical School, 180
 - One-Year Pre-Medical Course, 143
 - School of Liberal Arts, 50
- Crane Theological School, 123, 125
 - Faculty, 124
 - Outline of Courses, 125
 - Scholarships, 130
 - Standing Committee, 123
- Crown and Bridge Work, 203
- Curators of Buildings, 19
- Degrees Conferred in 1915-16, 209
 - Requirements for, Bachelor of Arts, 51, 54
 - Bachelor of Sacred Theology, 125
 - Bachelor of Science, 51, 54
 - Bachelor of Science in Chemistry, 53
 - Bachelor of Science in Engineering, 53
 - Courses, 93
 - Doctor of Medicine, 212
 - Doctor of Dental Medicine, 213
 - Jackson College, 85
 - Master of Arts, 135
 - Master of Science, 135
- Departments, Order of, 54
- Departments of Instruction in
 - Engineering School, 102
 - Pre-Medical Course, 149
 - School of Liberal Arts, 55
- Dental School, 155, 193
 - Expenses, 172
 - Faculty, 194
 - Outline of Courses, 198
 - Requirements for Admission, 196
 - Standing Committee, 193

- Dentistry, Instruction in
 - Clinical, 202
 - Operative, 200
 - Prosthetic, Instruction in, 200
- Dermatology, 191
- Diagnosis, Physical, 187
 - Medical, 187
- Diseases of Children, 187
- Dormitories, men, 32; women, 86
- Drawing, Freehand, Entrance Requirements in, 287
 - Instruction in, Engineering School, 104
 - Mechanical, Entrance Requirements in, 288
- Economics, Entrance Credit in, 276
- Education, Instruction in, 69
- Electrical Engineering, 95, 117
- Electricity, Instruction in
 - Engineering School, 117
 - School of Liberal Arts, 70
- Embryology, Instruction in, 185
- Employment for Students, 42
- Engineering School, 89
 - Courses of Instruction in, 95, 97
 - Course in Chemical, 95, 97, 107
 - Course in Civil, 95, 96, 110
 - Course in Electrical, 95, 97, 117
 - Course in Mechanical, 95, 97, 115
 - Course in Structural, 95, 96, 114
 - Index to Subjects in, 99
 - Engineering Laboratories, 45
 - Departments of Instruction, 102
 - Examination Group System, 100
- English, Elementary, Entrance Requirements, 268
 - Instruction in, School of Liberal Arts, 55
 - Instruction in, Engineering School, 94
 - Instruction in, Pre-Medical Course, 150
- Equipment and Buildings, 43
- Ethics, Instruction in, Theological School, 127
- Examinations
 - College Entrance Examination Board, 279
 - Entrance, 13, 23, 142
 - Dental School, 197, 207
 - Group System, 99
 - Medical School, 192
 - State Board, Dental School, 207
- Expenses, Bromfield-Pearson School, 29
 - Crane Theological School, 30, 130
 - Graduate School, 30, 139
 - Jackson College, 30, 86
 - Medical-Dental, 172
 - Pre-Medical Course, 148
 - School of Liberal Arts, 29
- Faculty, Associated Schools, 14
 - Crane Theological School, 123
 - Dental School, 156, 194
 - Engineering School, 90
 - Graduate School, 134
 - Jackson College, 82
 - Medical-Dental Schools, 156
 - Medical School, 156, 176
 - One-Year Pre-Medical Course, 143
 - Organization of the Faculties, 20
 - School of Liberal Arts, 48
- Fees, Examinations, 30
 - Registration, 30
 - Tuition, 30
- Gymnasium and Student Organizations, 31
 - General Maintenance, 32
 - Laboratory, 33
- Fines, 28
- Filing of Program, 25
- Foreman of the Grounds and Buildings, 19
- French, Advanced, Entrance Requirements in, 277
 - Intermediate, Entrance Requirements in, 276
 - Elementary, Entrance Requirements in, 276
 - Instruction in, Engineering School, 102
 - Instruction in, Pre-Medical Course, 150
 - Instruction in, School of Liberal Arts, 58
- Freshman Program
 - Engineering School, 94
 - School of Liberal Arts, 52
- General Information, Associated Schools, 25
 - Dental School, 207
 - Medical School, 192
- Genito-Urinary Diseases, Instruction in, 188
- Geography, Entrance Requirements in, 287
- Geology, Entrance Requirements in, 287
 - Instruction in, 68
 - Engineering School, 117
- German, Advanced, Entrance Requirements in, 275
 - Intermediate, Entrance Requirements in, 274
 - Elementary, Entrance Requirements in, 273
 - Instruction in, Engineering School, 102
 - Instruction in, Pre-Medical Course, 150
 - Instruction in, School of Liberal Arts, 57
- Grade required for graduation, 54
- Grades of Scholarship, 27
- Graduate School, 133
 - Courses of Instruction, 136
 - Expenses, 139
 - Faculty, 134
 - Requirements for degrees, 135
 - Standing Committees, 133
 - Scholarships, 139
- Graduation from Pre-Medical Course, 151
- Graphics, Instruction in
 - Engineering School, 104
 - Liberal Arts, 69
- Greek, Advanced, Entrance Requirements in, 269
 - Elementary, Entrance Requirements in, 269
 - Instruction in, School of Liberal Arts, 60
- Gymnasium, Goddard, 44
 - Jackson, 85
- Gynecology, Instruction in, 150
 - Clinical, Instruction in, 190
- Harpwell Laboratory, 6
- Hebrew, Instruction in, 127
- Hematology, 187
- Histology, Instruction in, School of Liberal Arts, 70
 - Dental School, 201
 - Medical School, 183
- History, Advanced, Entrance Requirements in, 283
 - Elementary, Entrance Requirements in, 270
 - Of Religions, Instruction in, 127
- History and Public Law
 - Instruction in, School of Liberal Arts, 71
- Homiletics, Instruction in, Theological School, 129
- Honors, academic, 38

- Honors and Honorable Mention, 41, 212
 - Dental School, 208
 - Engineering School, 42
 - Medical School, 102
 - School of Liberal Arts, 41
- Hospital, 42
- House mistresses, 19
- Hygiene and Sanitation, Instruction in, 188
 - Oral, 201
- Insurance, 42
- Italian, Instruction in, 59
- Jackson College for Women, 85
 - Departments of Instruction (see School of Liberal Arts)
 - Dormitories, 85, 86
 - Expenses, 29, 85
 - Faculty, 82
 - Loans and Aids, 88
 - Requirements for Degrees, 85
 - Scholarships, 87
 - Standing Committees, 81
- Jurisprudence, Medical, 188
- Laboratories, Engineering, 45
- Laryngology, Instruction in, 182
- Latin, Advanced, Entrance Requirements in, 279
 - Intermediate, Entrance Requirements in, 278
 - Elementary, Entrance Requirements in, 278
 - Instruction in, School of Liberal Arts, 59
- Law, Public, and Administration, Instruction in, School of Liberal Arts, 71
- Lecturers, non-resident, Theol. School, 124
 - Medical-Dental School, 168
- Liberal Arts, *see* School of Liberal Arts
- Libraries, 43
 - Associated Schools, 43
 - Medical-Dental, 171
- Library Staff, 19
- License to Preach, 129
- Loan Funds, 38, 88
- Location, 6
- Majors, 51
- Major Departments, 50
- Marks, 27
- Mathematics, Entrance Requirements in, 272
 - Instruction in, School of Liberal Arts, 61
 - Instruction in, Engineering School, 106
- Mechanic Arts, Instruction in, 105
 - Mechanical Engineering, 95, 115
- Mechanics, Applied, Instruction in, 113
- Medical Advisers, 19
- Medical School, 155, 170, 175
 - Expenses, 172
 - Faculty, 176
 - Outline of Courses, 180
 - Requirements for Admission, 179
 - Standing Committees, 175
- Medical Preparatory Course, *see* Pre-Medical Course
- Medicine, 187
 - Clinical, Instruction in, 188
 - Theory and Practice of, Instruction in, 188
- Mental Diseases, Instruction in, 188
- Mineralogy, Instruction in, 68
 - Engineering School, 119
- Minors, 51
- Modern Languages, Engineering School, 102
 - Liberal Arts, 57
 - Pre-Medical School, 158
- Museum, Barnum, 44
- Music, Entrance Credit in, 127
 - Instruction in, 76
- Neurology, Instruction in, 188
- Neuropathology, 188
- New Testament, Instruction in, 128
- Normal Freshman Program, 52
- Obstetrics, Instruction in, 190
 - Operative, Instruction in, 190
- Office, Trustees, 10
 - Associated Schools, 18
 - Medical and Dental Schools, 162
- Old Testament, Instruction in, 127
- One-Year Pre-Medical Course, 145
- Operative Technics, Instruction in, Dental School, 205
- Ophthalmology, Instruction in, 191
- Oral Surgery in Dental School, 205
- Oratory, Instruction in, 75
- Order of the Departments, 54
- Orthodontia, Instruction in, 204
- Orthopedic Surgery, Instruction in, 181
- Otology, Instruction in, 191
- Pastoral Care, Instruction in, 129
- Pathology, Instruction in, Dental School, 204
- Pecuniary Aid in Crane School, 130
- Pharmacology, Instruction in, 186, 205
- Philosophy, Instruction in, 69
- Physical Diagnosis, 187
- Physical Education, Department Statement, 77, 87
- Physics, Entrance Requirements in, 285
 - Instruction in, School of Liberal Arts, 63
 - Instruction in, Engineering School, 106
 - Instruction in, Pre-Medical Course, 144
- Physiology
 - Instruction in, 176, 184, 201
- Political Science, Instruction in, School of Liberal Arts, 72
 - Instruction in, Engineering School, 119
- Pre-Medical Course, 141
 - Calendar, 142
 - Departments of Instruction, 149
 - Expenses, 148
 - Faculty, 143
 - Registration, 148
 - Requirements for Admission, 146
 - Standing Committees, 141
- Prescribed Studies, 51
- Prizes, 38
- Profession of the Ministry, 130
- Program Filing of, 25
- Program, Normal Freshman, 52
- Promotion, School of Liberal Arts, 27
 - Dental School, 207
 - Engineering School, 27
- Prosthodontia, Instruction in, 200
- Psychology, Instruction in, School of Liberal Arts, 69
- Public Law and Administration, Instruction in, 71
- Pulmonary Diseases and, Instruction in, 188
- Rectum, Diseases of the, Instruction in, 188
- Register of Students, 217
- Registration, School of Liberal Arts, 25
 - Bromfield-Pearson School, 26
 - Crane Theological School, 25
 - Engineering School, 26
 - Graduate School, 25
 - Jackson College, 26, 86
 - Medical-Dental Schools, 173
 - One-Year Pre-Medical Course, 148

- Religious Education, 129
- Religious Observances, 28
- Requirements in the Several Departments of the Graduate School, 136
- Requirements for Degrees, *see* Degrees
- Roentgenology, Instruction in, 191
- Rooms, Rent, 31
 - Regulations, 31
- Russell Lecture, 19, 29
- Scholarships, 33
 - Crane Theological School, 130
 - Graduate School, 139
 - Jackson College, 87
 - Prize, 38, 87
- School of Liberal Arts
 - Courses of Instruction, 50
 - Departments of Instruction, 55
 - Expenses, 29
 - Faculty, 48
 - Requirements for degrees, 54
 - Standing Committees, 47
 - Sessions of the School, 172
- Shopwork, Entrance Requirements in, 288
- Sixtieth Annual Commencement, 210
- Spanish, Instruction in, Engineering School, 104
 - Instruction in, Liberal Arts, 61
- Student Employment, Committee on, 42
- Structural Engineering, 95, 114
- Summary of Officers and Students, 293
- Surgery, Instruction in, 189
 - Clinical, Instruction in, 189
 - Instruction in, Dental School, 205
 - Operative, 190
 - Orthopedic, Instruction in, 181
- Surgical Technique, 189
- Teaching, Preparatory Course, 52
- Terms and Vacations, 28
- Theism, Philosophy of, Instruction in, 63
- Theology, Instruction in, 77, 129
 - Bachelor of Sacred, taken with A.B. in six years, 125
 - Three-Year Course, 125
 - Five-Year Course, 125
- Theory and Practice of Medicine, 187
- Time at which college payments are made, 33
- Time Schedule, School of Liberal Arts and Jackson College, 78
- Toxicology, 186
- Trustees, 8
- Tufts College
 - Board of Editors, 20
 - Buildings and Grounds, 5
 - Buildings and Equipment, 43
 - Location, 6
 - Studies, 29
- Tuition, *see* Expenses
- Vacations and Terms, 28
- Visitors, Board of, 9
- Vocations, preparation for, 52
- Women, Funds for, 87
- Zoology, Entrance Requirements in, 287

TH 1

TUFTS COLLEGE

Vol. XVIII BULLETIN No. 2

DECEMBER, 1917

ANNUAL CATALOGUE

1917-1918

PL

PUBLISHED BY THE TRUSTEES OF TUFTS COLLEGE

Entered at the Post Office, Boston, Mass., as Second-Class Matter

Published monthly, from November to June inclusive, at Tufts College, Mass., by the Trustees of Tufts College. Copies may be had by addressing the Registrar, Tufts College, Mass.

☛ The post-office address of the School of Liberal Arts, Jackson College for Women, the Engineering School, the Bromfield-Pearson School, and the Crane Theological School, is TUFTS COLLEGE, MASS.

The address of the Medical and Dental Schools is 416-430 HUNTINGTON AVENUE, BOSTON, MASS.

THE GREAT
TUNNELS 601

THE
TUNNELS
601



A MAP OF THE GROUNDS OF TUFTS COLLEGE

Scale 1/4 mile
200 400 600 Feet

The buildings occupied by the Medical and
Dental Schools are located at 416-430
Huntington Ave., Boston.

College Buildings

- 1 WEST HALL (dormitory)
- 2 PACKARD HALL (Theological class rooms)
- 3 EAST HALL (dormitory)
- 4 CURTIS HALL (post-office, class rooms, and dormitory)
- 5 CHEMICAL LABORATORY
- 6 DEAN HALL (dormitory)
- 7 GYMNASIUM (for men)
- 8 BARNUM MUSEUM (public museum, library, laboratory, and class rooms)
- 9 BALLOU HALL (main offices and class rooms)
- 10 GUDDARD CHAPEL
- 11 EATON MEMORIAL LIBRARY
- 12 PAIGE HALL (Theological School dormitory)
- 13 MINERAL HALL (Jackson College class rooms)
- 14 ROBINSON HALL (Engineering laboratories and class rooms)
- 15 POWER LABORATORY (power station)
- 16 THOMPSON-PEARSON BUILDING (Engineering shops and class rooms)
- 17 MERCURY HALL (dormitory for women)
- 18 START HOUSE (dormitory for women)
- 19 JACKSON GYMNASIUM (for women)
- 20 KATHARIN HALL (dormitory for women)
- 21 GAMMA HOUSE (dormitory for women)

Residences

- PROFESSORS ROW**
- 8 President Bumpus
 - 14 Dean Anthony
 - 20 Prof. Lewis
 - 38 Prof. Durkee
 - 48 Dean McCollister
 - 72 Dean Davies
 - 80 Zeta Psi House
 - 92 Prof. Fay
 - 98 Prof. Bray
 - 106 Prof. Rockwell
 - 114 Delta House
 - 124 Prof. Hooper
 - 128 Prof. Schmidt
 - 134 Alpha Tau Omega House

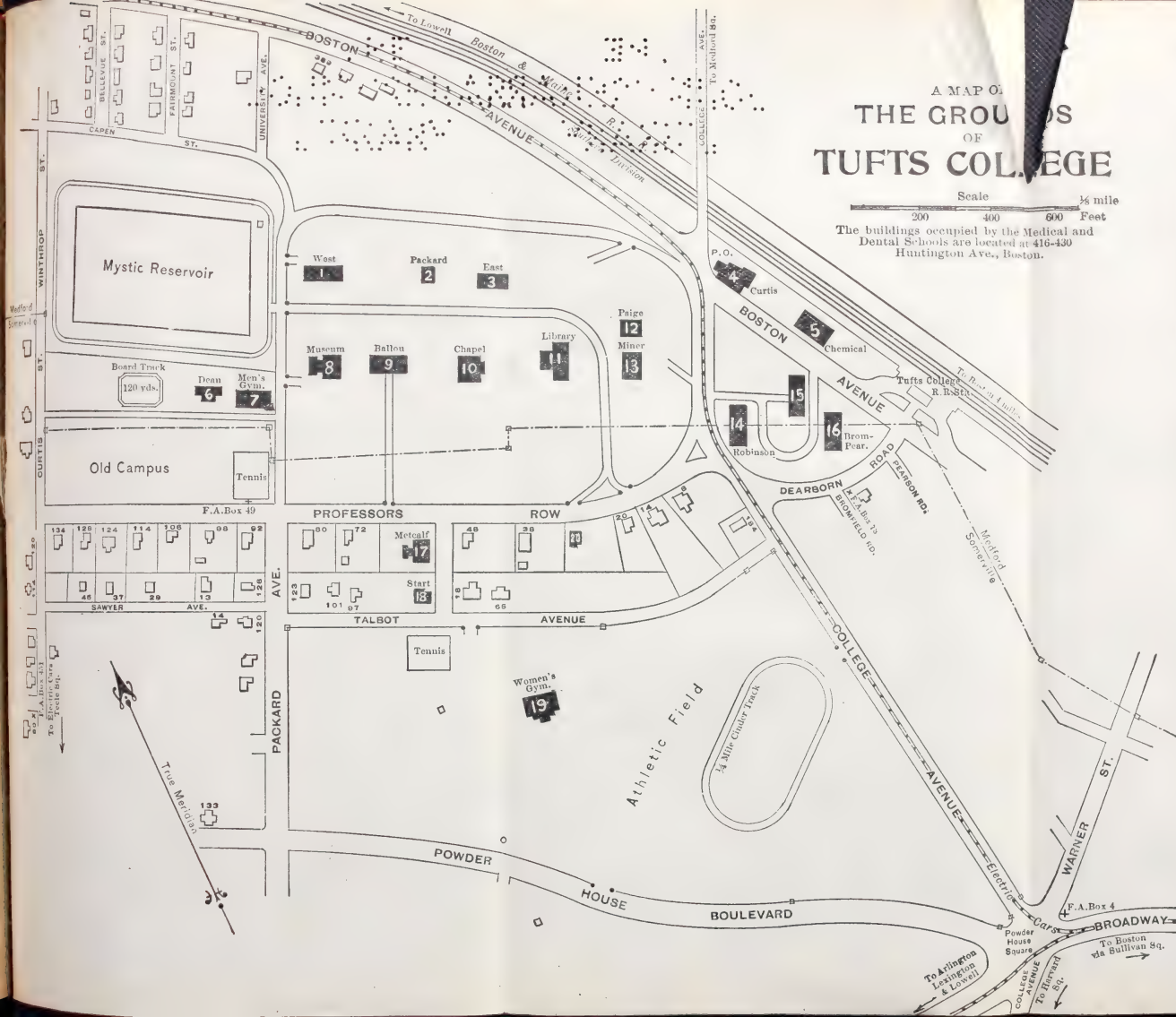
- SANVER AVENUE**
- 13 Delta Upsilon House
 - 14 Mr. L. Rice
 - 29 Prof. Ransom
 - 37 Gamma House
 - 45 Prof. Seavey

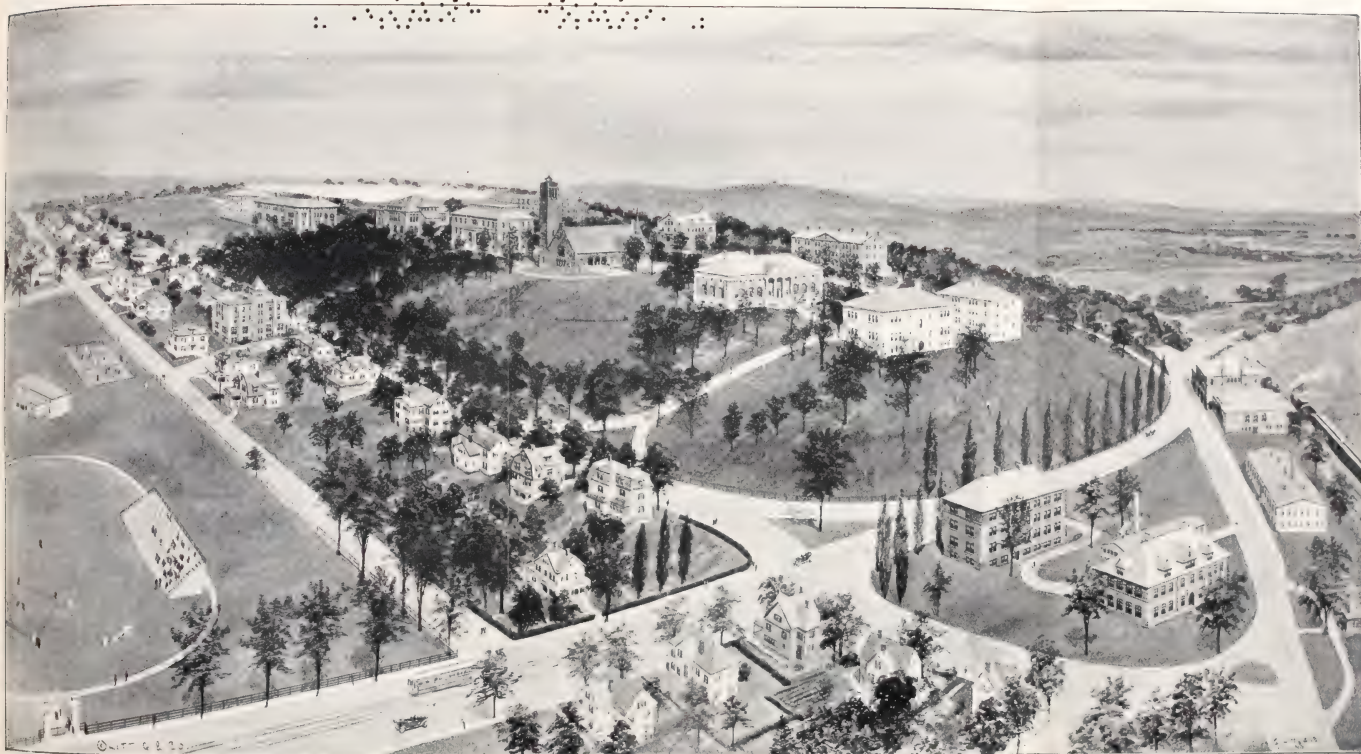
- TALBOT AVENUE**
- 65 Dean Wren
 - 97 Prof. Gray
 - 101 Prof. Munro, Prof. Rollins
 - 102 Prof. Skinner

- CURTIS STREET**
- 120 Prof. Lambert
- PACKARD AVENUE**
- 120 Prof. Leonard
 - 123 Theta Delta Chi House
 - 126 Prof. Neal

- LATIN WAY**
- 18 Delta Tau Delta House
- COLLEGE AVENUE**
- 157 Phi Epsilon Pi House
 - 163 Sigma Tau Alpha House
 - 184 Prof. Bolles
 - 201 Mr. Pouleur
- BOSTON AVENUE**
- 361 Mr. Henson
- BROADWAY**
- 890 The Commons Club
- FAIRMOUNT STREET**
- 10 Mr. H. Rice

Post-office address: Tufts College, Mass. Railroad Station: Tufts College on Southern Division of Boston and Maine Railroad. Electric cars from Boston via Sullivan Square. Freight Station: North Somerville, Mass.





TUFTS COLLEGE

Copyright 1913 by
W. T. Littig, New York

Reproduced from a Photogravure 14 x 28 inches

THE
LIBRARY OF
TUFTS COLLEGE
120 N. BROAD ST.
CAMBRIDGE, MASS.

TUFTS COLLEGE CATALOGUE

CATALOGUE
OF
TUFTS COLLEGE
1917-1918



SCHOOL OF LIBERAL ARTS
JACKSON COLLEGE FOR WOMEN
ENGINEERING SCHOOL
BROMFIELD-PEARSON SCHOOL
CRANE THEOLOGICAL SCHOOL
GRADUATE SCHOOL
PRE-MEDICAL COURSE
MEDICAL SCHOOL
DENTAL SCHOOL

The purpose of this publication is to give information to those who may desire to become students of Tufts College, and to provide a book of reference.

It is the policy of the College not to introduce changes in requirements for admission without due notice in the catalogue, and not to impose additional requirements upon classes already enrolled. Changes in the curriculum and in the program occasionally may be necessary, and under such circumstances equitable adjustment is made.

The Registrar will be glad to answer inquiries, and an invitation to visit the College is extended to those who may desire to do so.

Tufts College

While the College owed its beginning to the efforts and to the support of members of the Universalist denomination, the charter provided that "No instructors in said College shall ever be required by the Trustees to profess any particular religious opinions as a test of office, and no student shall be refused admission to or denied any of the privileges, honors, or degrees of said college, on account of the religious opinions he may entertain."

Its purpose is to provide substantial instruction in fundamental subjects, and to encourage those who are eager to make use of its educational opportunities, in order that they may improve themselves and thus contribute to the general improvement of the community.

To this end the institution is using a large endowment and is enlisting the support of graduates and friends. The Faculty aims not only to teach, but to ascertain the intellectual deficiencies and proficiencies of the students, and through personal effort and sympathetic counsel to strengthen the places wherein they are weak, and to develop to the utmost the places wherein they are strong.

Tufts College does not desire to enlarge its enrollment with those who seek leisure, or who look lightly upon college work, but it will do its utmost to help those who come to it with the fixed purpose of profiting by what it can give.

LOCATION OF TUFTS COLLEGE

The Buildings and Grounds in Somerville and Medford

The original buildings are located on the hill formerly known as Walnut Hill in Somerville and Medford—adjoining the City of Boston—and about five miles from the State House. Several car lines run directly to the College Grounds. The campus embraces about eighty acres, and there are twenty buildings used for educational and dormitory purposes. The buildings and the grounds have an estimated value of \$1,335,000. Here

are located the School of Liberal Arts, Jackson College for Women, the Engineering School, the Bromfield-Pearson School, the Crane Theological School, and the Graduate School.

The Buildings and Grounds in Boston

In 1893 the Tufts College Medical School was established, and in 1899 the Boston Dental College was taken over by legislative sanction. These professional schools are located in the Medical-Dental Buildings, 416 Huntington Ave., Boston, Mass. The land and buildings represent an investment of over \$300,000. There are 83,000 square feet of floor space divided into lecture rooms, laboratories, offices, etc.

The College has an interest in the Biological Laboratory at South Harpswell, Maine, which enables it to offer special privileges to officers and students.

The College is fortunate in its location. Student life at "The Hill" is substantially like that of the smaller colleges in New England. The students and Faculty form a community, the members of which are well acquainted with each other, and there are many social interests in which all share. A close intimacy between the Faculty and the student body has always prevailed.

The proximity of Boston makes it easy for students to avail themselves of the libraries, museums, and other social, educational, and cultural facilities that are offered by a large city. Students receive material benefit from the privileges offered by business houses, manufacturing plants, and other institutions.

The Medical-Dental Buildings are not far from the Library of the Boston Medical Association, are central to the larger hospitals, dispensaries, and clinics, and near a score or more of scientific and educational institutions.

Control of the College is vested by the charter in a Board of Trustees, ten of whom are elected by the Alumni. Immediate control of the educational work rests with the several Faculties.

The Trustees of Tufts College

President

AUSTIN BARCLAY FLETCHER

Vice-President

WILLIAM WALLACE McCLENCH

Secretary

EDMUND WILBUR KELLOGG, 24 Milk St., Boston

Treasurer

ARTHUR ELLERY MASON, 24 Milk St., Boston

Assistant-Treasurer

EDMUND WILBUR KELLOGG, 24 Milk St., Boston

Executive Committee

CHARLES NEAL BARNEY, *Chairman*

SUMNER ROBINSON	WALTER HERMON BELCHER
ROBERT ROBBINS ANDREWS	IRA RICH KENT
ARTHUR WINSLOW PEIRCE	GUY MONROE WINSLOW
HERMON CAREY BUMPUS	
HAROLD EDWARD SWEET	

Committee on Finance

WALTER EDWARD PARKER, *Chairman*

WILLIAM WALDEMAR SPAULDING	JAMES ARTHUR JACOBS
J. FRANK WELLINGTON	JOHN ALBERT COUSENS
HERMON CAREY BUMPUS	

Trustees

JOHN COLEMAN ADAMS, A.M., D.D.	Hartford, Conn.
BYRON GROCE, A.M., Litt.D.	Boston
HOSEA WASHINGTON PARKER, A.M., LL.D.	Claremont, N. H.
WALTER EDWARD PARKER, A.M.	Lawrence
WILLIAM WALDEMAR SPAULDING, A.M.	Haverhill
SUMNER ROBINSON, A.M., LL.B.	Newton
JOHN WILKES HAMMOND, A.B., LL.D.	Cambridgeport

J. FRANK WELLINGTON, A.M.	Somerville
ARTHUR ELLERY MASON, A.M.	Boston
ROBERT ROBBINS ANDREWS, A.M., D.D.S.	Cambridge
JAMES ARTHUR JACOBS, A.M.	Roxbury
ROSEWELL BIGELOW LAWRENCE, LL.B., A.M.	Medford
ARTHUR WINSLOW PEIRCE, A.B., Litt.D. (1922)	Franklin
CHARLES NEAL BARNEY, A.M., LL.B. (1918)	Lynn
AUSTIN BARCLAY FLETCHER, A.M., LL.D.	New York, N. Y.
LLOYD EVERETT WHITE, A.B. (1920)	Taunton
JOHN ALBERT COUSENS, A.B.	Chestnut Hill
IRA RICH KENT, A.B.	Boston
WILLIAM DAVIS THAYER TREFRY, A.M. (1921)	Marblehead
WILLIAM WALLACE McCLENCH, A.B. (1921)	Springfield
CHARLES HIAL DARLING, A.B., LL.D.	Burlington, Vt.
ROBERT CALTHROP BROWN, A.B., E.E.	Toronto, Canada
MILTON GERRY STARRETT, Sc.D. (1918)	New York, N. Y.
WALTER HERMON BELCHER, A.B. (1919)	Medford
GUY MONROE WINSLOW, A.B., Ph.D. (1919)	Auburndale
HERMON CAREY BUMPUS, Ph.D., Sc.D., LL.D. . . .	Tufts College
GEORGE ALEC HARWOOD, M.S., Sc.D. (1920)	New York, N. Y.
HAROLD EDWARD SWEET (1922)	Attleboro

Numbers following the names indicate date of expiration of term of Trustees elected by the Alumni.

The Board of Visitors

TO THE SCHOOL OF LIBERAL ARTS

ARTHUR WINSLOW PEIRCE

BYRON GROCE

HAROLD EDWARD SWEET

TO JACKSON COLLEGE

IRA RICH KENT

MRS. FRANK A. DEWICK

SUMNER ROBINSON

TO THE ENGINEERING SCHOOL

MILTON GERRY STARRETT

ROBERT CALTHROP BROWN

GEORGE ALEC HARWOOD

TUFTS COLLEGE

TO THE CRANE THEOLOGICAL SCHOOL

ROSEWELL BIGELOW LAWRENCE

JOHN COLEMAN ADAMS

HOSEA WASHINGTON PARKER

TO THE MEDICAL SCHOOL

JOHN ALBERT COUSENS

CHARLES HIAL DARLING

CHARLES NEAL BARNEY

TO THE DENTAL SCHOOL

ROBERT ROBBINS ANDREWS

GUY MONROE WINSLOW

WALTER HERMON BELCHER

OFFICE OF THE BOARD OF TRUSTEES

24 Milk Street, Boston

EUGENE EVERETT SHEPARD, Bursar . 43 Boston Ave., W. Medford

CLARENCE SHERWOOD CASSIDY, Assistant Bursar

44 Fox St., Dorchester

MARY LIZZIE CARTER, Bookkeeper . . 20 Rossiter St., Dorchester

ELSA WILHELMINA VOGEL, Assistant to Treasurer

40 Hartwell St., Roxbury

PART I

THE ASSOCIATED SCHOOLS

(Located at "The Hill")

SCHOOL OF LIBERAL ARTS

(Giving the degrees of A.B. and B.S.)

JACKSON COLLEGE FOR WOMEN

(Giving the degrees of A.B. and B.S.)

ENGINEERING SCHOOL

(Giving the degree of B.S.)

BROMFIELD-PEARSON SCHOOL

(One-year course. No degree)

CRANE THEOLOGICAL SCHOOL

(Giving the degree of S.T.B.)

GRADUATE SCHOOL

(Giving the degrees of A.M. and M.S.)

A Pre-Medical Course — providing instruction equivalent to two years of college work — is conducted at the Medical-Dental Buildings, which are located on Huntington Ave., Boston, but the instruction is given under the direction of the School of Liberal Arts.

Calendar — 1918

JANUARY							MAY							SEPTEMBER						
M	T	W	T	F	S		S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5				1	2	3	4	1	2	3	4	5	6	7
6	7	8	9	10	11	12	5	6	7	8	9	10	11	8	9	10	11	12	13	14
13	14	15	16	17	18	19	12	13	14	15	16	17	18	15	16	17	18	19	20	21
20	21	22	23	24	25	26	19	20	21	22	23	24	25	22	23	24	25	26	27	28
27	28	29	30	31			26	27	28	29	30	31		29	30					
FEBRUARY							JUNE							OCTOBER						
					1	2						1			1	2	3	4	5	
3	4	5	6	7	8	9	2	3	4	5	6	7	8	6	7	8	9	10	11	12
10	11	12	13	14	15	16	9	10	11	12	13	14	15	13	14	15	16	17	18	19
17	18	19	20	21	22	23	16	17	18	19	20	21	22	20	21	22	23	24	25	26
24	25	26	27	28			23	24	25	26	27	28	29	27	28	29	30	31		
							30													
MARCH							JULY							NOVEMBER						
					1	2		1	2	3	4	5	6						1	2
3	4	5	6	7	8	9	7	8	9	10	11	12	13	3	4	5	6	7	8	9
10	11	12	13	14	15	16	14	15	16	17	18	19	20	10	11	12	13	14	15	16
17	18	19	20	21	22	23	21	22	23	24	25	26	27	17	18	19	20	21	22	23
24	25	26	27	28	29	30	28	29	30	31				24	25	26	27	28	29	30
31																				
APRIL							AUGUST							DECEMBER						
	1	2	3	4	5	6				1	2	3		1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30					25	26	27	28	29	30	31	29	30	31				

Calendar of the Associated Schools

1918

- JAN. 2. Christmas recess ends, Wednesday, 8 A.M.
FEB. 7-13. Mid-year examinations.
FEB. 13. End of the first half-year, Wednesday.
FEB. 18. Second half-year begins, Monday. Registration.
FEB. 22. Washington's Birthday. Exercises are suspended.
APRIL 17. Spring recess begins, Wednesday evening.
APRIL 22. Spring recess ends, Monday, 8 A.M.
MAY 10. Goddard Prize Readings, Friday, 8 P.M. (Goddard Chapel).
MAY 20. Senior Theses due at 10 A.M. (Engineering School).
MAY 25-29. Senior Examinations. (Engineering School).
MAY 30. Memorial Day. Exercises are suspended.
JUNE 8-13. Final examinations.
JUNE 16. Baccalaureate Sermon, Sunday, 4 P.M. (Goddard Chapel).
JUNE 17. Annual Commencement, Monday.
JUNE 17-22. Entrance Examinations conducted by the College Entrance Examination Board. Application blanks may be obtained from the Secretary of the Board, 431 West 117th St., New York, N. Y.
-

- SEPT. 16-18. Entrance examinations given in Ballou Hall, Tufts College, Mass. For the schedule see "Admission by Examination."
SEPT. 26. College year begins. Registration.
OCT. 12. Columbus Day. Exercises are suspended.
OCT. 20. Russell Lecture, Sunday, 4 P.M. (Goddard Chapel).
NOV. 20. Announcement of Academic Honors, 12 M. (Goddard Chapel).
NOV. 28. Thanksgiving Day. Exercises are suspended.
DEC. 21. Christmas recess begins, Saturday, 1 P.M.

1919

- JAN. 2. Christmas recess ends, Thursday, 8 A.M.
JAN. 31 to FEB. 5. Mid-year examinations.
FEB. 5. End of the first half-year, Wednesday.
FEB. 10. Second half-year begins, Monday.
FEB. 22. Washington's Birthday. Exercises are suspended.
APRIL 16. Spring recess begins, Wednesday, 5 P.M.
APRIL 21. Spring recess ends, Monday, 8 A.M.
MAY 10. Goddard Prize Readings, Friday, 8 P.M. (Goddard Chapel).
MAY 19. Senior Theses due at 10 A.M. (Engineering School).
MAY 26-29. Senior Examinations. (Engineering School).
MAY 30. Memorial Day. Exercises are suspended.
JUNE 7-12. Final examinations.
JUNE 15. Baccalaureate Sermon, Sunday, 4 P.M. (Goddard Chapel).
JUNE 16. Annual Commencement, Monday.

Faculty of the Associated Schools

The post office address is Tufts College, Mass., unless otherwise indicated.

President

HERMON CAREY BUMPUS, PH.D., Sc.D., LL.D. . 8 Professors Row

Deans

FRANK GEORGE WREN, A.M. 65 Talbot Ave.
School of Liberal Arts

CAROLINE STODDER DAVIES, A.M. 72 Professors Row
Jackson College for Women

GARDNER CHACE ANTHONY, A.M., Sc.D. . . 14 Professors Row
Engineering School

LEE SULLIVAN MCCOLLESTER, S.T.D. . . . 48 Professors Row
Crane Theological School

CHARLES ERNEST FAY, A.M., Litt.D. . . . 92 Professors Row
Graduate School

Chaplain

EDWIN CORTLANDT BOLLES, D.D., LL.D. . . . 184 College Ave.

Recording Secretary

WILLIAM HOWELL REED, A.M. 81 Walnut Ave., Roxbury

Professors Emeriti

CHARLES HALL LEONARD, A.M., D.D., LL.D. . 120 Packard Ave.
*Goddard Professor of Homiletics and Pastoral Theology,
and Dean of the Crane Theological School*

CHARLES DURLIN BRAY, C.E., A.M. 98 Professors Row
Mechanical Engineering

GEORGE MILFORD HARMON, A.M., D.D. Rindge, N. H.
Biblical Theology

WILLIAM GEORGE TOUSEY, A.M., S.T.D. 79 Marshall St., Somerville
Logic and Ethics

Professors

Arranged in the order of their appointment at Tufts.

CHARLES ERNEST FAY, A.M., Litt.D. 92 Professors Row
*Wade Professor of Modern Languages
Dean of the Graduate School*

- WILLIAM LESLIE HOOPER, A.M., PH.D., SC.D., LL.D.
Electrical Engineering 124 Professors Row
- FRANK WILLIAMS DURKEE, A.M. 38 Professors Row
Chemistry
- LEO RICH LEWIS, A.M. 20 Professors Row
History and Theory of Music
- GARDNER CHACE ANTHONY, A.M., SC.D. . . 14 Professors Row
Technical Drawing
Dean of the Engineering School and Bromfield-Pearson School
- FRANK GEORGE WREN, A.M. 65 Talbot Ave.
Walker Professor of Mathematics
Dean of the School of Liberal Arts
- CHARLES HARRIS CHASE, S.B. 39 Lincoln St., Stoneham
Steam Engineering
- FRED DAYTON LAMBERT, A.M., PH.D. 120 Curtis St.,
Botany W. Somerville
- WILLIAM KENDALL DENISON, A.M. . 42 Fletcher St., Winchester
Latin Language and Literature
- HENRY CLAYTON METCALF, PH.D. 31 Sheffield Road,
Jackson Professor of Political Science Winchester
- EDWIN CORTLANDT BOLLES, A.M., PH.D., D.D., LL.D.
Dickson Professor of English and American History 184 College Ave.
- WILLIAM RICHARD RANSOM, A.M. 29 Sawyer Ave.
Mathematics
- FRANK BERRY SANBORN, C.E., M.S. 8 Buena Vista Park,
Civil Engineering N. Cambridge
- EDWARD HENRY ROCKWELL, S.B. 133 Powder House Boulevard
Structural Engineering W. Somerville
- ALFRED CHURCH LANE, A.M., PH.D., SC.D. . . 22 Arlington St.,
Pearson Professor of Geology and Mineralogy N. Cambridge
- HENRY IRVING CUSHMAN, A.M., D.D. 26 Pitman St.,
Homiletics Providence, R. I.
- CAROLINE STODDER DAVIES, A.M. 72 Professors Row
English
Dean of Jackson College for Women
- HINCKLEY GILBERT MITCHELL, D.D. . 36 Pinckney St., Boston
Hebrew and Old Testament Exegesis
- ARTHUR IRVING ANDREWS, PH.D. . . 405 Broadway, Cambridge
History and Public Law

KARL SCHMIDT, A.M., PH.D.	128	Professors Row	<i>Philosophy and Education</i>
LEE SULLIVAN MCCOLLESTER, S.T.D.	48	Professors Row	<i>Packard Professor of Christian Theology</i> <i>Dean of Crane Theological School</i>
HERBERT VINCENT NEAL, PH.D.	126	Packard Ave.	<i>Zoology</i>
CLARENCE RUSSELL SKINNER, A.M.	102	Powder House Blvd., Woodbridge Professor of Applied Christianity	W. Somerville
CHARLES HENRY GRAY, PH.D.	97	Talbot Ave.	<i>English</i>
HENRY HOWARD MARVIN, B.S., PH.D.	6	Marshall St., Medford Hillside	<i>Physics</i>
FRANK ELIAS SEAVEY, A.M.	45	Sawyer Ave.	<i>English</i>

Assistant Professors

Arranged in the order of their appointment at Tufts.

*EDWIN BUTLER ROLLINS, B.S.	101	Talbot Ave.	<i>Electrical Engineering</i>
MELVILLE SMITH MUNRO, B.S.	101	Talbot Ave.	<i>Electrical Engineering</i>
WILLIAM HOWELL REED, A.M.	81	Walnut Ave., Roxbury	<i>Modern Languages</i>
RICHARD CURTIS SMITH, B.S.	15	Warren St., W. Medford	<i>Structural Engineering</i>
SAMUEL LUCAS CONNER, M.S.	33	Emery St., Medford Hillside	<i>Railroad Engineering</i>
HOWARD HASTINGS CARROLL, B.S.	66	Wyman St., W. Medford	<i>Technical Drawing</i>
ALBERT HATTON GILMER, A.M.	154	Woburn St., W. Medford	<i>English</i>
VANNEVAR BUSH, M.S., ENG.D.	18	Tudor St., Chelsea	<i>Electrical Engineering</i>
WILLIAM FRANK WYATT, PH.D.	45	Sawyer Ave.	<i>Greek</i>
JOSEPH CHANDLER, PH.D.	7	Edison Ave., Medford Hillside	<i>Organic Chemistry</i>

* Absent on leave, first semester 1917 — 1918.

Lecturers

REV. FRANCIS G. PEABODY, D.D., Russell Lecture, November 4, 1917
Cambridge

MISS FLORENCE JACKSON 264 Boylston St., Boston
Four lectures on Vocations for Women

Instructors

CONRAD ARNOLD ADAMS, B.S. 108 College Ave., Medford
Mechanic Arts

CROSBY FRED BAKER, M.S. 75 Pearson Rd., W. Somerville
Chemistry

RUTH ALDEN BASS Alpha House, Latin Way
Physical Training in Jackson

MARY STONE BRUCE, A.M. . . Hotel Cluny, 543 Boylston St., Boston
French

HARRY POOLE BURDEN, B.S. . . 34 W. Adams St., W. Somerville
Civil Engineering

THOMAS JOHN CONNOR 18 Stevens St., Medford Hillside
Director of Physical Training

SHIRLEY WILCOX HARVEY, A.B. Dean, 6
English

JOHN LOUIS CHARLES KEEGEN, A.M. Dean, 10
English

NATHANIEL HOBBS KNIGHT, B.S. . . . 44 Stearns Ave., Medford
Physics

ARTHUR WHITING LEIGHTON 26 Gibbens St., Somerville
Drawing

ETHEL MARR McCALLUM 45 Sawyer Ave.
English

EDGAR MACNAUGHTON, M.E. . . 88 Quincy St., Medford Hillside
Mechanical Engineering

CHARLES FREEMAN NEVENS, A.B. . 64 Ossipee Rd., W. Somerville
Modern Languages in the Engineering School

FRANK WALTER POTE, B.S. 45 Dearborn St., Medford
Physics

- AUGUSTE LAWRENCE POULEUR, M.S. 201 College Ave.,
Chemistry W. Somerville
- HAROLD JAMES POWER, B.S. 14 Warner St., W. Somerville
Radio-Engineering
- HARRIS RICE, S.B. 211 Boston Ave., Medford Hillside
Walker Special Instructor in Mathematics
- LEPINE HALL RICE, Ph.B. 14 Sawyer Ave.
Mathematics
- EDWIN ADAMS SHAW, A.M. 63 College Ave., W. Somerville
Education
- DONALD SKEELE TUCKER, A.M. 429 Columbus Ave., Boston
Political Science

Assistants

- MARGARET BOLLES 184 College Ave.
History
- FORREST WILLARD COBB, '18 Δ T Δ House, 18 Latin Way
Chemistry
- HELEN BEATRICE CROCKER, B.S. . . 31 Sheffield Rd., Winchester
Political Science
- HARRY WALTER HIGHRITER, '18 . Z Ψ House, 80 Professors Row
Stock Room Clerk in Chemical Laboratory
- GEORGE ROBERT CRONIN, '18 Φ Δ House, 20 Sunset Rd.
Chemistry
- GENEVA ALICE WHEET, A.B. 136 Curtis St., W. Somerville
English
- GEORGE FREEMAN WHITMARSH, '20 West, 10
Olmstead Scholar
- MARY A. GRANT, '20 Delta House, 114 Professors Row
Olmstead Scholar
- HELEN K. HARDY, '19 Delta House, 114 Professors Row
Olmstead Scholar
- BERTRAM E. GREEN, '18 Φ E Π House, 157 College Ave.
Olmstead Scholar

Eaton Memorial Library

- HELEN LOUISE MELLEN 58 Curtis St., W. Somerville
Librarian, Emeritus
- ETHEL MUNROE HAYES, A.B. 252 Medford St., Somerville
Librarian

- BLANCHE HEARD HOOPER, A.B. 124 Professors Row
Assistant Librarian
- HELEN ALMIRA ROWE, A.B. 20 Vine St., Winchester
Cataloguer
- CLARENCE HARVEY WOODWARD, '19 A T O House,
Student Assistant 134 Professors Row
- RALPH DEWEY WESTON, '20 West, 19
Student Assistant

**Administrative Office of the President and Dean of the School of
 Liberal Arts**

- GEORGE STEWART MILLER, A.M. . 128 North St., Medford Hillside
Secretary to the President
- NELLIE ALVIRA WRIGHT 245 Medford St., Somerville
Registrar
- GERTRUDE BERTHA CLAUS 36 Pleasant St., Saugus
Stenographic Assistant
- DOROTHY MAY SALTMARSH . . 15 Hamilton St., Medford Hillside
Stenographic Assistant

Administrative Office of the Dean of Jackson College

- GENEVA ALICE WHEET, A.B. . . . 136 Curtis St., W. Somerville
Assistant

Administrative Office of the Dean of the Engineering School

- MASON EDWARD BENNETT . . . 34 Martin St., Medford Hillside
Clerk

Administrative Office of the Dean of the Crane Theological School

- ANITA ELIZABETH BALZER, '20 . Gamma House, 37 Sawyer Ave.
Clerk

Foreman of the Grounds and Buildings

- GEORGE WISEMAN HENSON 391 Boston Ave.

House Mistresses

- MRS. CAROLINE M. ROBINSON, A.B. 56 Professors Row
Head of Metcalf Hall
- MISS RUTH ALDEN BASS Latin Way
Alpha House

MRS. DOROTHY CHAMBERLAIN	28 Professors Row <i>Richardson House</i>
MISS CATHERINE DOLBEAR, A.M.	37 Sawyer Ave. <i>Gamma House</i>
MISS RUTH TOUSEY, A.B.	114 Professors Row <i>Delta House</i>

Medical Advisers

JOHN ALLAN McLEAN, M.D.	16 Curtis St., W. Somerville <i>Medical Adviser</i>
ANNA QUINCY CHURCHILL, M.D.	32 Percival St., Dorchester <i>Medical Adviser</i>

Russell Lecturer, 1918

FRANCIS GREENWOOD PEABODY, D.D., LL.D.	Cambridge
------------------------------------------------	-----------

Standing Committees

ADMINISTRATION: President Bumpus, *Chairman*; Deans Wren, Anthony, McCollester, Davies, and Fay; Professors Hooper and Lambert.

LIBRARY: President Bumpus, *Chairman*; Dean Fay, Professors Andrews, Chase, and Gray.

PROGRAM AND EXAMINATIONS: Dean Wren, *Chairman*; Dean Anthony and Professor Denison.

CATALOGUE: Dean Anthony, *Chairman*; Professors Denison and Seavey.

BOOKS AND SUPPLIES: Professor Lewis, *Chairman*; Professors Lane, Conner, and Mr. Burden.

MEMBERS ON THE PART OF THE FACULTY OF ARTS AND SCIENCES OF THE BOARD OF DIRECTORS OF ATHLETICS: Professor Smith, *Chairman*; Mr. MacNaughton and Mr. Shaw.

STUDENT ORGANIZATIONS AND USE OF COLLEGE BUILDINGS: Professor Hooper, *Chairman*; Dean Anthony, Professors Denison, Smith, and Gilmer.

STUDENT EMPLOYMENT: Professor Gilmer, *Chairman*; Professor Rolins and Mr. H. Rice.

BOARD OF EDITORS OF TUFTS COLLEGE STUDIES: President Bumpus, *Chairman*; Professors Fay, Neal, Metcalf, and Rockwell.

NATIONAL SERVICE: Professor Hooper, *Chairman*; Professors Andrews and Lane, Dr. Chandler and Mr. Burden.

Requirements for Admission

Candidates for admission to the School of Liberal Arts, Jackson College for Women, the Engineering School and the Crane Theological School must have received adequate preparation in certain subjects, aggregating fifteen units which fall in the groups mentioned below. In these groups the values of the several subjects are given in units. Each unit "represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work."

1. Prescribed Group

All of the following, which aggregate 8 units

English 1	1 $\frac{1}{2}$
English 2	1 $\frac{1}{2}$
Foreign Language	2†
History	1‡
Algebra A1	1
Plane Geometry	1

2. Elective Group

A sufficient number of the following to aggregate . . 4 units

Foreign Language 1, or 2, or 3, or 4†	
History	1 or 2‡
Algebra A2	1
Physics	1
Chemistry	1
Solid Geometry	$\frac{1}{2}$
Trigonometry	$\frac{1}{2}$
Freehand Drawing	$\frac{1}{2}$

3. Free Margin Group

This group may be made up of any subjects (not counted in the previous groups) which an approved secondary school counts toward graduation, and which are certified by the Principal to be equivalent to 3 units

Total	15 units
-------	----------

†The foreign languages offered for admission are to be selected from the following: Latin, Greek, French, and German. In Latin, 2, 3, or 4 units may be counted, and in Greek, French, or German, either 2 or 3 units may be counted. Any other foreign language in which systematic instruction has been received for a period of at least two years may be counted for 2 units.

‡Ancient History, English History, or History and Government of the United States.

Candidates for the degree of Bachelor of Arts must present either 4 units in Latin or 3 in Greek.

Candidates for admission to the Engineering School must present 2 units in Algebra.

It is recommended that at least 9 of the units presented for admission be confined to three subjects.

Detailed information concerning the amount and character of the work demanded in preparation will be found in the Appendix.

METHODS OF ADMISSION

Admission to Tufts College may be obtained by certificate, by examination, or by a combination of the two. Every candidate for admission must present a testimonial of good character from the principal under whom he was prepared for college.

Admission by Certificate

In order to make the transition from the school to the college more direct, Tufts College has an arrangement with certain high schools whereby students of good standing may pass from the high school directly into the College without the formality of examination. The conditions controlling this arrangement require that the school shall be on the approved list of the New England College Entrance Certificate Board, and that in certain subjects the pupil shall have completed with certificate grade the amount required for admission to the Freshman class of Tufts College.

The principals of the accredited schools are provided with blanks prepared for this purpose.

Certificates showing that candidates have fulfilled the admission requirements of another college or university will be accepted, in so far as they fulfill the conditions controlling admission to Tufts.

The academic diploma of the Regents of the State of New York will be accepted for admission when such diploma covers the subjects required for entrance.

The student should make sure that the certificate upon which he intends to enter Tufts College is sent to the Registrar (Tufts College, Mass.) at the earliest possible date — preferably at the time of graduation — and that he receives from the College an acknowledgment assuring him that the certificate has been received and that his name has been enrolled.

All schools in New England which desire the certificate privilege should apply to the Secretary of the Board, Professor Frank W. Nicolson, Wesleyan University, Middletown, Conn., before April 1 of the year for which the certificate privilege is desired.

Applications for the certificate privilege for schools outside of New England should be made by the Principal on a blank provided for the purpose by the Registrar of the College. Applications should be received before April 1, in order that the school may be placed upon the approved list for the next academic year.

Admission by Examination

The examinations may be taken in June or in September, or a part in June and a part in September.

In June, 1918, the admission examinations of this College will be the examinations of the College Entrance Examination Board, of which Tufts College is a member. The examinations will be held during the week June 17-22, 1918, at Robinson Hall, Tufts College, Mass., and at other places to be announced by the Board.

For further information consult the Appendix or communicate with the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y.

The September examinations are prepared and given by Tufts College in accordance with the following schedule.

September, 1918, Examinations for Admission to the Associated Schools

(These examinations will be given in Ballou Hall, Tufts College, Mass.)

SEPT. 16. Elementary, Intermediate, and Advanced French, 9 to 11; Elementary, Intermediate, and Advanced German, 11 to 1; Elementary and Advanced Greek, Advanced Algebra and Trigonometry, 2 to 5; * American History, 2 to 4; English History, 4 to 6.

SEPT. 17. Algebra, 9 to 10.30; English, 10.30 to 12.30; Plane Geometry, 2 to 4; Physics, 4 to 5.

* Persons desiring to be examined in Medieval or Modern History are requested to confer with the examiner.

SEPT. 18. Elementary, Intermediate, Advanced Latin and Drawing, 9 to 12; Solid Geometry, 9 to 11; Biology, Botany, Geography, Geology, Zoology, and Economics, 11 to 1; Ancient History, 2 to 4; Chemistry, 4 to 5.

Admission from other Colleges

Students of other colleges may be admitted to Tufts College under the following conditions:

They must present evidence that they have maintained creditable and honorable standing. They must present certificates showing in detail the amount and character of their college work. They must give satisfactory reasons for desiring transfer.

Such students will be enrolled as "unclassified" until they have demonstrated their qualifications and scholarship.

General Information

REGISTRATION

Having passed the entrance examinations of June or of September, or having been duly certified, the applicant for admission should at once ask the College office for registration blanks. These blanks should be filled out promptly and with fidelity, and returned to the Registrar, together with the registration fee of five dollars.

The officers of Tufts College take an interest in the welfare of the student, and the value of the advice which they can give is in no small measure dependent upon the fullness with which the registration data are given.

THE FILING OF PROGRAMS

The program is a statement of the several studies that the student desires to pursue, the officers that are to give instruction and the places and hours at which the classes are to meet. Programs are prepared in accordance with the following schedule.

I. FOR STUDENTS IN THE SCHOOL OF LIBERAL ARTS, THE CRANE THEOLOGICAL SCHOOL, AND THE GRADUATE SCHOOL:

9.30 A.M.—On the “opening day” of the term (in October on Thursday, and in February on Monday), those filing their programs for the first time assemble in Room 4, Ballou Hall, at which time the students are assigned to certain officers who act as their advisers in the preparation of their programs. When the programs are prepared, they are filed with the Registrar.

9-11 A.M.—Members of the three upper classes file their programs in accordance with conferences which were held with their major instructors during the previous term.

II. FOR STUDENTS IN JACKSON COLLEGE FOR WOMEN:

11 A.M.—12 M.—On the “opening day” of the term, all students obtain blanks and file programs at the Dean’s office. Members of the three upper classes register in accordance with programs prepared at conference with major instructors held previous to June first.

11.15. A.M.—All students registering for the first time assemble in Room 10, Miner Hall, for instruction concerning registration.

III. FOR STUDENTS IN THE ENGINEERING SCHOOL AND THE BROMFIELD-PEARSON SCHOOL:

10 A.M.—On the “opening day” of the term, those filing their programs for the first time assemble in Robinson Hall, room 23, where information is given concerning courses of study and the preparation of programs.

After the programs are prepared they are filed with the Registrar.

10–12 A.M.—Members of the three upper classes file their programs in accordance with conferences held during the examination period of the previous term.

During the hours set apart for filing of programs, instructors are available for consultation and for the approval of plans of study, in rooms announced on the bulletin board.

Regular program appointments are in force on the second day of each term.

The College desires that its students should begin their work with promptness. Students who are late in registering or in filing their programs cause irregularities and confusion in the administrative office. Upper-class men who are not present on the “opening day” are subject to a registration fee of five dollars.

PROMOTION

Students are not promoted from the Freshman class until they have completed all requirements for admission.

Candidates for the degree of Bachelor of Arts or Bachelor of Science (except in Engineering), before promotion to the Sophomore class, must have received a credit of not less than twenty-four term hours, and for promotion to the Junior class a credit of not less than fifty-four term hours. To become a member of the Senior class, a student must have credit for not less than eighty-seven term hours, and to graduate he must have had a credit of one hundred twenty-two term hours.

Candidates for the degree of Bachelor of Science in Engineering must have received, for promotion to the Sophomore class, a credit of not less than twenty-nine term hours; for promotion to the Junior class a credit of not less than sixty-four term hours; for promotion to the Senior class a credit of not less than ninety-nine term hours, and for graduation a credit of one hundred forty term hours.

GRADES OF SCHOLARSHIP

Scholastic standing is officially recorded as follows: **A**, excellent; **B**, good; **C**, fair; **L**, barely passable; **F**, not passable; **FF**, discreditable. **I** is used when a student for any cause fails to complete a subject.

The marks **I** and **F** impose a condition which must be removed at a date to be determined by the Committee on Promotions. In case marks of **I** or **F** are not so removed, the entry will be changed to **FF**. The responsibility for the removal of any condition rests with the student, who is required to make all necessary arrangements with the instructor and finally to present at the office of the Registrar a statement from the instructor that the work has been performed.

Reports of the work of Freshmen are sent to parents at the close of the first term. Reports for the year are issued in July.

TERMS AND VACATIONS

The year is divided into two terms. College exercises are suspended on certain dates in accordance with the calendar published at the beginning of the catalogue. An examination period of five days is held at the close of each term, during which the daily class exercises are suspended.

Students are not expected to extend their vacations by absenting themselves beyond the limit of the calendar. To prevent this extension they are required, except on holidays, to report in person at the Registrar's office within the two hours following the last class appointment preceding each vacation except at the mid-year intermission; and within two hours before their first class appointment following such vacation. This process is known as "signing off" and "signing on."

A fine of two dollars will be imposed on each student who shall fail to report as above provided. The regular registration at the beginning of each term shall be construed as "signing on."

ABSENCES

Students are required to notify the Registrar of absence from any cause involving more than three consecutive program appointments. This report should, if possible, be made in advance, and should state the cause of absence and the probable duration. After absence, notification should be given the Registrar before entering upon college work.

These reports are for the information of the college authorities, and do not excuse the student from chapel attendance, or from his obligations to the various instructors.

No student organization is allowed to make engagements involving absence from college exercises unless such engagements are first approved by the appropriate committee of the Faculty.

RELIGIOUS OBSERVANCES

Goddard Chapel, erected in 1882-83, is the gift of Mrs. Mary T. Goddard, as a memorial to her husband, Thomas A. Goddard. The week-day exercises are conducted by the College Chaplain, Dr. Edwin C. Bolles. Attendance is required.

The RUSSELL LECTURE, established in accordance with a bequest of James Russell of Arlington, is delivered by either a clergyman or a layman, on a subject prescribed by the testator.

Two subjects are presented, in alternate years.

The subject for 1917 was "*The Sufficiency of the Promises of the Gospel to meet the Reasonable Wants of Man both in Time and in Eternity.*"

The subject for 1918 is "*The Importance of Christian Faith and Belief in the Formation of the Character of the Good Citizen and the Good Man.*"

TUFTS COLLEGE STUDIES

A publication called "Tufts College Studies" has been established, as a means of presenting the results of original work done in the several departments of the College. The numbers, which are issued from time to time, are distributed as exchanges to educational institutions and learned societies. Correspondence regarding exchanges should be addressed to the Librarian of Tufts College.

ATHLETICS

The supervision and direction of all athletic sports is vested in a Board of Directors of Athletics, consisting of nine members, three of whom are appointed from the Faculty, three from the Alumni, and three elected from the Undergraduates. This board through its sub-committees controls the expenditure of moneys, the hiring of coaches, the eligibility of players, and the arranging of games. The Director of the Gymnasium, after physical examination, limits the candidates for college teams to those who have shown themselves qualified to engage in strenuous exercise.

EXPENSES

Realizing that the cost of collegiate instruction may prevent certain students from carrying their education beyond that provided by the public schools, and desiring that the facilities offered by Tufts College shall not be denied those of limited means, the Trustees have, for many years, refrained from making any increase in the charge for tuition.

The buildings, grounds and various endowments of the College have an aggregate value of over \$3,000,000 so that the amount actually paid to the College by any student is only a fraction of the cost of the instruction provided.

The expenses of the student are as follows:

Examination Fee

A fee of five dollars is charged for examining the student, in order to test the thoroughness of his preparation and to determine his fitness for collegiate work.

If the student is examined in June by the College Entrance Examination Board, the fee is sent by the student to the Secretary of the Board, 431 West 117th St., New York, N. Y.

If the student is examined in September by examiners at Tufts College, the fee is paid to the Bursar of the College before the examination is taken. If the student is examined in both June and September, two fees are necessary.

If the student enters "on certificate" or on the "academic diploma" of the Regents of the State of New York, there is no examination fee.

Registration Fee

This charge of five dollars is made but once. It covers the cost of registering the student as a member of the College, and gives provisional enrollment until the courses of study have been arranged. It is a guarantee on the part of the student of his intention to assume the duties and privileges of student-membership in some one of the Associated Schools of the College.

Tuition Fee

The charge for each term or semester of instruction in the several Associated Schools is given in the following table.

School of Liberal Arts	\$62.50
Jackson College for Women	62.50
Engineering School	87.50
Bromfield-Pearson School	75.00
Crane Theological School	50.00
Graduate School	50.00

Before receiving the degree of A.B. or B.S. students must have paid tuition charges for eight terms of instruction. This regulation applies whether the time actually consumed is three, four, or more college years.

In the case of students admitted to advanced standing the fees will be prorated.

Fees For Gymnasium And Student Organizations

By request of the student body, the Bursar has been instructed to collect assessments for the maintenance of student activities, such as field-sports, the college *Weekly*, reading room, etc. These are combined with the gymnasium fee and amount to \$12.00 for the first term and \$5.00 for the second term. Each student is put on the subscription list of the *Tufts Weekly*, and receives a season ticket admitting him to the intercollegiate contests.

Room Rent

Students may or may not reside on the campus. It is customary for a dormitory room, or suite of rooms, to be occupied by two students. Each pays one-half rent, which, including heat and services, ranges from \$12.50 to \$40.00 per term. The rooms may be occupied from the Wednesday of the week preceding the opening of the College year to the Saturday following Commencement. Except in Paige Hall, students provide their own furniture.

The students are custodians of the rooms and dormitories in which they reside. Injury to the rooms or buildings other than normal wear is charged to the occupants.

Non-resident students may obtain the use of "day rooms" upon the payment of a moderate fee. The rooms are assigned by the Bursar, under regulations approved by the Board of Trustees. All correspondence connected with the engagement and assignment of rooms should be addressed to the Bursar.

Room rent in the several dormitories may be tabulated as follows; the prices given are the rate per student per term.

Dormitories For Men

Double Rooms

	Curtis	Dean	East	Paige	West	Total
\$13.75	.	.	2	.	.	2
15.00	.	.	2	.	.	2
18.50	.	.	.	.	2	2
20.00	2	.	4	.	2	8
21.50	6	2	4	.	.	12
22.50	1	.	1	.	.	2
23.00	.	.	2	.	2	4
24.00	.	.	1	.	6	7
25.00	1	.	5	.	2	8
25.50	.	.	1	.	2	3
27.50	.	.	5	.	.	5
29.50	.	.	1	.	2	3
32.00	.	.	.	.	6	6
35.00	.	.	.	.	4	4
37.50	.	.	.	.	2	2
40.00	.	12	.	.	2	14
Total Double Rooms	10	14	28	0	32	84

Single Rooms

\$12.50	.	.	.	.	1	1
15.00	.	.	1	.	.	1
20.00	.	.	3	.	.	3
21.50	.	.	2	.	.	2
22.50	1	.	.	.	.	1
25.00	1	.	.	.	.	1
37.50	.	.	.	36	.	36
Total Single Rooms	2	0	6	36	1	45
Total	12	14	34	36	33	129

General Maintenance Fee

To defray a part of the cost of maintaining buildings and grounds, students are assessed five dollars per term. This fee is included in the rental charges of those residing at the College.

Laboratory and Other Fees

Students taking laboratory courses in Geology, Mineralogy, Chemistry or Biology are charged four dollars per term for material regularly consumed. The cost of breakage is collected at the close of the term. Before graduation, seniors are charged two dollars to cover the cost of the diploma.

THE TIMES AT WHICH COLLEGE PAYMENTS ARE MADE

All term bills must be paid in advance, and the College prefers to have the charges of the entire term paid at the time of registration, or before the date of the opening of the term. Realizing, however, that it is sometimes difficult for those who are working their way to comply with this regulation, it permits, for the present, the following schedule, to the terms of which it is obliged rigidly to adhere:

First Term

On or before October 4, \$50, On account.

“ “ November 1, Balance of term bill.

Second Term

On or before February 18, \$50, On account.

“ “ March 1, Balance of term bill.

All college charges are collected by the Bursar. Checks should be made payable to the Trustees of Tufts College. Promotions, degrees and letters of honorable dismissal cannot be granted to those in arrears.

A student may be suspended or dismissed for failure to keep his bills promptly paid, or for other good and sufficient cause.

No part of the fees and charges for a term is returnable to the student if he leaves during the term.

SCHOLARSHIPS

Tufts College has been singularly blessed in that many of its friends have given various sums, the interest on which is awarded to students who find it difficult to meet all of the financial exactions of college training.

Scholarships are awarded by the Trustees on the recommendation of the Faculty. The Faculty desires to become acquainted with the students before making its recommendation, and it therefore advises those who are coming to the College for the first time and who feel that they must have scholarship aid, to make early request to the Registrar for a scholarship application blank and to fill in this blank and mail it to the Chairman of the Scholarship Committee prior to the beginning of the term.

The student should, if possible, be prepared, himself, to meet the first payment of the term, — that is, the payment due October 4, or February 18. After the scholarship has been awarded, it will be credited to the second payment and reduce this amount accordingly.

In the year 1916-17 the Trustees distributed approximately \$12,000 to students in good standing. During the first term of the year 1917-18 scholarship awards were made as follows:

116	awards of	\$25.00	each
9	"	"	37.50 "
13	"	"	50.00 "
3	"	"	62.50 "

Scholarship aid will depend upon the student's need and the grade of his work. His obligations to the College must be met promptly, his attendance must be regular, and his influence on the student body must be in every sense wholesome. His loyalty to the College and his sense of common gratitude should dictate that as soon as possible after graduation he return to the College the several sums that he has received in order that others in need may be assisted in their efforts to obtain privileges similar to those that he has enjoyed.

The scholarships and the amount of the endowment are here listed.

THE STATE SCHOLARSHIPS. (3)

Established in 1859 in accordance with a resolve of the Commonwealth

THE A. A. MINER SCHOLARSHIP.

\$1,000

Founded in 1864 by Alonzo Ames Miner, D.D., of Boston.

- THE HOWLAND SCHOLARSHIPS.** (5) \$10,366.87
Established in 1865 from the income of the bequest of Edwin Howland, of South Africa.
- THE WALKER MATHEMATICAL SCHOLARSHIPS.** (5)
Established in 1865 in honor of William J. Walker, M.D., of Newport, R. I., and payable from the income of the Walker Fund.
- THE PERKINS SCHOLARSHIP.** \$1,000
Founded in 1866 by James D. Perkins, of New Rochelle, N. Y.
- THE MOSES DAY SCHOLARSHIPS.** (2) \$4,000
Founded in 1880 by Moses Day, of Roxbury.
- THE MOSES DAY SCHOLARSHIP.** \$1,000
Founded in 1880 by Moses Day, of Roxbury.
- THE ANDERSON SCHOLARSHIP.** \$2,000
Founded in 1890 by John M. Anderson, of Salem, in the name of John M. and Rebecca Anderson.
- THE WILLIAM OSCAR CORNELL SCHOLARSHIP.** \$2,500
Founded in 1890 by William Oscar Cornell, of Providence, R. I.
- THE MARTHA GOLDTHWAITE MEMORIAL SCHOLARSHIP.** \$2,000
Founded in 1890 by Willard Goldthwaite, of Salem.
- THE A. A. MINER SCHOLARSHIP.** \$2,000
Founded in 1890 by Alonzo Ames Miner, D.D., of Boston.
- THE NORCROSS SCHOLARSHIP.** \$2,000
Founded in 1890 by James A. and Mrs. Mary E. Norcross, of Worcester.
- THE REBECCA T. ROBINSON SCHOLARSHIP.** \$2,000
Founded in 1890 by Charles Robinson, LL.D., of Newton.
- THE LAURA A. SCOTT SCHOLARSHIP.** \$2,000
Founded in 1890 by Mrs. Laura A. Scott, of Ridgefield, Conn.
- THE STOW SCHOLARSHIP.** \$2,000
Founded in 1890 by Mrs. Eugenia D. Stow, of Meriden, Conn.
- THE TALBOT SCHOLARSHIP.** \$2,000
Founded in 1890 by Newton Talbot, of Boston.
- THE TRAVELLI SCHOLARSHIP.** \$2,000
Founded in 1890 by Mrs. Emma R. Travelli, of Newton.
- THE AMASA AND HANNAH L. WHITING SCHOLARSHIP.** \$2,000
Founded in 1890 by Mrs. Hannah L. Whiting, of Hingham.
- THE WHITTIER SCHOLARSHIP.** \$2,000
Founded in 1890 by Charles Whittier, of Roxbury, in the name of Charles and Eliza Isabel Whittier.

THE MARIA P. WINN SCHOLARSHIP.	\$2,000
Established in 1890 from a bequest of Mrs. Maria P. Winn, of Woburn.	
THE HOSEA BALLOU, 2D, MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Mrs. Mary T. Goddard, of Newton.	
THE HENRY F. BARROWS SCHOLARSHIP.	\$2,000
Founded in 1891 by Henry F. Barrows, of North Attleboro.	
THE EDWIN H. CHAPIN MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by friends of Edwin Hubbell Chapin, D.D, of New York City.	
THE ANDREW J. CLARK MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Mrs. Abbie B. Clark, of Orange.	
THE HENRY E., COBB SCHOLARSHIP.	\$2,000
Founded in 1891 by Henry E. Cobb, of Boston.	
THE COUSENS SCHOLARSHIP.	\$2,000
Founded in 1891 by John E. Cousens, of Brookline, in the name of John E. and Sarah C. Cousens.	
THE THOMAS A. GODDARD MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Mrs. Mary T. Goddard, of Newton.	
THE J. H. MORLEY MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Herbert Small Morley, of Templeton.	
THE ELLERY E. PECK MEMORIAL SCHOLARSHIP.	\$2,500
Founded in 1891 by Henry Rollins, of Bangor, Me.	
THE SARAH E. SAYLES MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Albert W. Sayles, of Lowell.	
THE BENJAMIN F. SPINNEY SCHOLARSHIP.	\$2,000
Founded in 1891 by Benjamin F. Spinney, of Lynn.	
THE SIMONS MEMORIAL SCHOLARSHIP.	\$2,000
Founded in 1891 by Mrs. Mary A. Simons, of Manchester, N. H., in memory of Hiram H., Augustus, and Frank Simons.	
THE MARY ANN WARD SCHOLARSHIP.	\$2,000
Founded in 1892 by Sylvester L. Ward of Boston.	
THE SIMMONS SCHOLARSHIPS. (2)	\$4,000
Founded in 1895 by Robert F. Simmons, of Attleboro, in the name of Mary F. and Robert F. Simmons.	
THE JOHN B. PERKINS SCHOLARSHIP.	\$2,000
Founded in 1896 by Ann Maria Perkins, of Medford.	
THE JOSHUA S. AND HARRIET N. WHITE SCHOLARSHIP.	\$2,000
Founded in 1896 by Joshua S. White, of Pawtucket, R. I.	
THE BARNARD SCHOLARSHIPS. (3)	\$7,000
Founded in 1897 by Mrs. Caroline M. Barnard, of Everett.	

THE BARTLETT SCHOLARSHIP.	\$2,000
Founded in 1897 by Mrs. Nancy Bartlett, of Milford.	
THE B. H. DAVIS SCHOLARSHIP.	\$2,000
Founded in 1897 by the Rev. B. H. Davis, of Weymouth, for the benefit of students of the School of Liberal Arts who are preparing to enter the Christian ministry.	
THE LATIMER W. BALLOU SCHOLARSHIP.	\$2,000
Founded in 1898 by Latimer W. Ballou, of Woonsocket, R. I.	
THE JOSEPH D. PEIRCE MEMORIAL SCHOLARSHIP.	\$1,250
Founded in 1898 by the children and other relatives of J. D. Peirce, D.D., of Attleboro.	
THE JOSEPH H. WALKER SCHOLARSHIP.	\$1,000
Founded in 1898 by Joseph H. Walker, of Worcester.	
THE RHODE ISLAND SCHOLARSHIP.	\$2,100
Founded in 1899 by several persons in Rhode Island.	
THE GEORGE C. THOMAS SCHOLARSHIP.	\$1,000
Founded in 1899 by George C. Thomas, of Philadelphia, Pa.	
THE ALBERT W. SAYLES SCHOLARSHIP.	\$1,466
Founded in 1899 by Albert W. Sayles, of Lowell.	
THE NATHANIEL WHITE SCHOLARSHIP.	\$1,200
Founded in 1899 by Armenia S. White, of Concord, N. H.	
THE LIZZIE P. ALLEN SCHOLARSHIP.	\$2,000
Founded in 1900 by Lizzie P. Allen, of Derby Line, Vermont.	
THE LIZZIE P. ALLEN SCHOLARSHIP.	\$1,000
Founded in 1900 by Lizzie P. Allen, of Derby Line, Vermont.	
THE CHARLES AND FANNIE A. MINER BOOTH SCHOLARSHIPS. (2)	\$5,000
Founded in 1900 by Charles Booth, of Springfield, Vermont.	
THE LUTHER GILBERT SCHOLARSHIP.	\$2,000
Founded in 1902 by Mrs. Luther Gilbert, of Roxbury.	
THE JAMES M. AND EMILY COOK SCHOLARSHIP.	\$2,000
Founded in 1903 by Henrietta J. States, of Boston.	
THE WILLIAM H. SHERMAN SCHOLARSHIP.	\$2,000
Founded in 1903 by William H. Sherman, of Cambridge.	
THE DAVIS COOK SCHOLARSHIP.	\$2,000
Founded in 1904 by Davis Cook, of Cumberland, R. I.	
THE MARY A. RICHARDSON SCHOLARSHIP.	\$2,500
Founded in 1904 by Mrs. Mary A. Richardson, of Worcester.	
THE AUSTIN B. FLETCHER SCHOLARSHIP.	\$2,000
Founded in 1905 by Austin Barclay Fletcher, of New York City.	

THE WARREN SCHOLARSHIPS. (2)	
Founded in 1905 by Dr. Ira Warren of Boston.	
THE MARY L. GROCE SCHOLARSHIP.	\$2,000
Founded in 1906 by Mary L. Groce, of Roxbury.	
THE JONAS CLARK WELLINGTON SCHOLARSHIP.	\$2,500
Founded in 1906 by Mrs. Sarah C. Fisher Wellington, of Cambridge.	
THE JOHN MURRAY SPRAGUE AND ELIZA FLETCHER SPRAGUE SCHOLARSHIP.	\$2,000
Founded in 1908 by John Sprague, of Lowell.	
THE GEORGE STEVENS BALLARD SCHOLARSHIP.	\$2,000
Founded in 1910 by Caroline D. M. Ballard, of Augusta, Me.	
THE RICHARD PERRY BUSH SCHOLARSHIP.	\$2,000
Founded in 1910 by Mrs. Caroline M. Barnard, of Everett.	
THE HANNAH S. MOULTON SCHOLARSHIPS. (4)	\$10,150
Founded in 1914 by Hannah S. Moulton of Kensington, N. H.	
THE CYRUS V. BACON AND ADA B. W. BACON SCHOLARSHIP.	\$2,500
Founded in 1915 by Mrs. Ada B. W. Bacon, of Hingham	
THE JAMES O. CURTIS SCHOLARSHIP.	\$1,000
Founded in 1915 by Betsy B. Curtis, of Medford	
THE TRUSTEE SCHOLARSHIPS.	

A limited number of special scholarships of one hundred dollars each are available for needy students in the School of Liberal Arts who reside in college dormitories.

LOAN FUNDS

The College is enabled, through the generosity of certain benefactors, particularly through the gifts of Dr. Ira Warren, John W. Farwell, and Thomas O. Hill, to make loans in small amounts. It is the preference of the College to limit the loaning of money to the members of the Senior class. Applications should be made to the Chairman of the Scholarship Committee.

ACADEMIC HONORS, PRIZE SCHOLARSHIPS, AND PRIZES

On the third Wednesday in November, the Associated Schools meet the several Faculties in Goddard Chapel in academic convocation. At this time public announcement is made of those who have been selected to represent the Senior class on the commencement platform, and of the recipients of prize scholarships and prizes.

The following Prize Scholarship Funds have been established and scholarships from the income are awarded under special conditions:

THE GREENWOOD PRIZE SCHOLARSHIP IN ORATORY. \$1,000

Founded in 1877 by Mrs. Eliza M. Greenwood, of Malden, and given to such student as shall have made, as the result of faithful work, together with at least a fair degree of attainment, the greatest improvement in Oratory.

THE WENDELL PHILLIPS MEMORIAL SCHOLARSHIP. \$1,501

Founded in 1895 to perpetuate the name, fame, and influence of Wendell Phillips. This scholarship is to be awarded to a student who has completed the Freshman and Sophomore years, and he is to have the benefit of it during the remainder of his course. The beneficiary must be of sound body, high character, and ability in declamation and debate, and must comply with certain special conditions, including participation in a competitive debate of the applicants at the end of the Sophomore year. The specific conditions governing the award of this scholarship may be obtained by those intending to apply therefor from the Secretary of the Faculty, to whom application should be made early in the Sophomore year. The income of this scholarship is at present seventy dollars.

THE MOSES TRUE BROWN SCHOLARSHIP. \$1,000

A scholarship founded in 1903 by Moses True Brown, of Sandusky, Ohio, formerly Professor of Oratory in Tufts College, for encouraging and assisting worthy students in the department of Oratory.

THE PRIZE SCHOLARSHIP OF THE CLASS OF 1898.

The sum of fifty dollars is given annually by the Class of 1898 to that Senior who at the end of the Junior year shall have maintained the highest excellence in a course of study broadly and wisely chosen.

THE PRIZE SCHOLARSHIP OF THE CLASS OF 1882.

The sum of one hundred dollars is given annually by the class of 1882 to that member of the College who best exemplifies the combination of ability in athletics and excellence in scholarship.

The following prizes are awarded :

THE GODDARD PRIZES.

Three prizes of fifteen dollars each are assigned annually from the Goddard Prize Fund. In 1917-18 these prizes will be awarded in the departments of French, Political Science, and Chemistry, under the following conditions:

French.—A prize for that member of the class in French 32-4 who has done the most proficient work in the subject.

Political Science.—A prize for the best thesis by a student in Political Science on a subject to be approved by the head of the department. Theses prepared for courses will be accepted in competition.

Chemistry.—A prize for that member of the class in Chemistry 35-2 who has done the most proficient work in Chemistry 35-1 and Chemistry 35-2.

THE RHETORICAL PRIZES.

Three prizes are awarded as follows: A first prize of forty dollars, a second prize of thirty dollars, and a third prize of twenty dollars. The preliminary competition will be open to all candidates for the degree of A.B., B.S., and S.T.B. The rhetorical prizes are awarded by a committee, chosen by the Faculty, who judge the work presented by the competitors upon the public day appointed for that purpose. In order to enter the public competition, candidates, as well as their selections, must be approved by the Instructor in Oratory. A preliminary competition is held about ten days before the competition announced in the calendar, at which a committee of the Faculty determine the contestants in the final and public readings.

THE DE WITT C. TOMLINSON PRIZES.

Founded by Rev. Irving C. Tomlinson, of Brookline, Mass. Two prizes of thirty and twenty dollars respectively, for the two best essays on the subject of "The Ministry of Christ Jesus." The award of prizes must take into account (1) literary merit; (2) evidence of thorough study, clear insight, and unbiased understanding of the Biblical records of the ministry of Christ Jesus; (3) the treatment of the public and private ministration to those of his own time; (4) the treatment of the universal application of his ministry to all human needs, and (5) the treatment of the means by which the benefits of his ministry may be appropriated by his followers. These prizes are open to Seniors in The School of Liberal Arts, the Engineering School, the Theological School, and Jackson College, and to members of the Graduate School. Details as to conditions of competition may be obtained at the Registrar's office.

The foregoing prizes are not awarded, unless in the opinion of the respective judges there is sufficient merit in the several contests to warrant their distribution.

HONORS

FINAL HONORS IN THE SCHOOL OF LIBERAL ARTS AND JACKSON COLLEGE may be conferred at Commencement upon any member of the graduating class who shall have attained Grade A in approved subjects aggregating not less than eighteen term hours in a major department, and an average of Grade B in eighteen hours of allied subjects. Subjects marked with an asterisk (*) or with a double asterisk (**) will not be counted for Honors. Final Honors will be conferred only upon recommendation of the head of the department in which Honors are desired.

HONORABLE MENTION IN THE SCHOOL OF LIBERAL ARTS AND JACKSON COLLEGE will be made, at Commencement, of any student who has attained, during the two years immediately preceding graduation, Grade A in nine term hours and not less than Grade B in three additional term hours of approved work in one department. Subjects marked in the Catalogue with an asterisk (*) or with a double asterisk (**) are under the conditions explained above as applying to Final Honors.

Candidates for Honorable Mention are expected to report to the Office on or before May 1 the department or departments in which they look for such distinction.

FINAL HONORS IN THE ENGINEERING SCHOOL will be conferred at Commencement upon any member of the graduating class who shall have attained credits in his major department aggregating not less than eighteen term hours of Grade A and nine term hours of Grade B.

HONORABLE MENTION IN THE ENGINEERING SCHOOL will be made at Commencement of any student who has attained in any major department during the two years immediately preceding graduation, Grade A in nine term hours and not less than Grade B in six term hours.

Honors and Honorable Mention will be given in the five major departments in the Engineering School subject to the following conditions: 45-1, 45-2, 45-4, and 45-12, Applied Mechanics, may be counted in all departments, and no subject in the curriculum of the Freshman and Sophomore years may be counted in any department. Save as specified above the subjects in the Civil Engineering department will include those numbered (41); in the Structural Engineering department, those numbered (45) and (47); in the Mechanical Engineering department, those numbered (51); in the Electrical Engineering department, those numbered (61); and in the Chemical Engineering department, those numbered (35).

HOSPITAL

The College is the holder of a bed in the Somerville Hospital and its resident students in case of illness (except contagious diseases) are entitled to the benefits thereof without cost. Arrangements must be made through the college office.

INSURANCE

Arrangements may be made through the Bursar's office whereby students in any of the dormitories may insure their personal effects, including books, furniture, and wearing apparel. The cost of such insurance is fifty cents for \$100 per year.

COMMITTEE ON STUDENT EMPLOYMENT

It is the object of the committee on student employment to inform students concerning positions which may give regular occupation during available hours of term time, or which may be temporarily filled during the vacation periods. Students who wish to make application for any occupation should register their names, with a statement of their qualifications for any special work, with Professor ALBERT H. GILMER, Chairman of the Employment Committee, Ballou Hall.

Buildings and Equipment

LIBRARIES

The library building, erected through the gift of Mr. Andrew Carnegie, is called the Eaton Memorial Library, in honor of Charles Henry Eaton, '74, former pastor of the Church of the Divine Paternity, New York City.

In all, about seventy-five thousand bound volumes and sixty-seven thousand pamphlets are available for use. The College regularly receives more than two hundred periodicals. A reading-room, maintained by the students, supplies the daily and weekly papers. Separate rooms have been provided with facilities for the use of students working in the departments of History and Public Law, the Ancient Languages, the Modern Languages, Music, English, the Fine Arts, Philosophy, Political Science, Physics and Mathematics. The average annual increase by donation and purchase, for the last five years, has been about two thousand four hundred volumes.

In the general library is the collection of the Universalist Historical Society (six thousand volumes and several thousand pamphlets), to which, on application, students have access. In Packard Hall is a selected reference library, for the use of theological students. In the Barnum Museum is the department library of Natural History, numbering more than four thousand volumes and over ten thousand pamphlets. The Metcalf Musical Library is divided between the music rooms in Goddard Gymnasium, where the scores are kept, and the department room in the Eaton Memorial Library, which contains a collection of works relating to music. About four hundred representative musical compositions, in form for use upon the automatic instruments in the music rooms, are available to students.

The library building is open to all members of the College daily except Sundays and holidays, from 8.00 A.M. to 5.30 P.M.

BARNUM MUSEUM

The Barnum Museum of Natural History was built in 1883-84 by Phineas T. Barnum, who gave the College a fund for its maintenance and for additions.

The College is also indebted to Mr. Barnum for the larger portion of its zoological collection. This serves to illustrate all groups of the animal kingdom, and is especially rich in skeletons and mounted skins of mammals, the whole being well adapted for the purposes of instruction. The botanical collection consists of an herbarium containing a representation of the flora of New England, besides many specimens from Europe and the southern and western States. The geological collection has been selected with care and the mineralogical collection contains many fine examples.

The laboratories and lecture-rooms of the departments of Zoology, Botany and Geology are in the Museum building. The geological laboratory is provided with petrological microscopes, instruments for making rock sections, etc. The mineralogical laboratory possesses the apparatus necessary for the determination of minerals, the analysis of ores, and assay work. The biological laboratories for elementary work are furnished with all necessary facilities, while the laboratory for advanced and research work has all the appliances needed for investigation in anatomy, histology, and embryology.

GODDARD GYMNASIUM

Goddard Gymnasium, the gift of Mrs. Mary T. Goddard, is fitted with the apparatus usually seen in modern gymnasiums, including facilities for light and heavy gymnastics, fencing, wrestling, basket ball, base ball, and indoor athletic sports.

The third floor is occupied by the Department of Music.

A separate gymnasium are provided for women students.

ATHLETIC FIELD

Tufts College Athletic Field is the large inclosed field on College Avenue, where inter-collegiate contests are played. It includes a field house, two base-ball diamonds, a foot-ball field,

and a quarter-mile, twenty-foot cinder track. Tennis-courts for men and women students are on other fields.

CHEMICAL BUILDING

The building of the department of Chemistry contains laboratories for general inorganic, organic, analytical, and metallurgical chemistry, a large lecture-room, library, and weighing room, and the private laboratories of the professors in charge. The rooms are provided with modern laboratory conveniences, and are well supplied with apparatus and chemicals.

ROBINSON HALL

Robinson Hall, a memorial to Charles Robinson, is designed for the use of the Engineering School. It contains the laboratories for the Departments of Physics and Electricity and some of the laboratory equipment for the Departments of Civil and Mechanical Engineering. Beside these laboratories there are recitation rooms, a lecture hall and offices for the instructors and the Dean of the Engineering School. The drafting rooms for Civil and Structural Engineering are also in this building.

BROMFIELD-PEARSON BUILDING

The Bromfield-Pearson Building, built from funds given by Henry Bromfield Pearson, is largely used by the Departments of Drawing and Mechanic Arts. It contains the library and offices of the Department of Mechanical Engineering.

ENGINEERING LABORATORIES

The engineering laboratories are supplied with power and light from a Harrisburg Standard engine directly coupled to a direct current General Electric generator.

The Civil Engineering Laboratories contain the Cement and Highway testing apparatus including abrasion machines for paving material and the machines for testing cement and other highway materials. The surveying apparatus includes a very complete and varied equipment of transits, levels, plane tables, sextants, compasses, and the usual auxiliary apparatus.

The Hydraulic Laboratory is equipped with a 600 gallon Worthington duplex steam pump, a 300 gallon Lawrence centrifugal pump, steam pulsometer, Pelton water wheel and a Gould hydraulic ram. A 4500 gallon channel serves for supply and discharge from the several pumps and contains the weirs and necessary apparatus for the measurement of water.

In the Electrical Laboratories will be found the usual equipment of measuring instruments, dynamos, etc. required for courses in general electrical testing. While the greater part of this is standard apparatus certain of the most useful pieces were specially designed and constructed in the college shops by students in the electrical engineering course. A recent addition to the laboratories is a complete common battery telephone exchange consisting of a three position switch-board with the customary power plant and terminal room equipment. This apparatus is designed particularly for instruction purposes, but is also arranged to be representative of standard installation practice.

The Mechanical Engineering Laboratory equipment includes a Corliss engine with Admiralty condenser, a 15 Kilowatt Curtiss steam turbine and a variety of smaller engines, stationary and marine, of the plain slide valve, piston valve and riding cutoff valve types. There are gas and gasoline engines of from one to four cylinders representing a variety of makes. An automobile and motorcycle testing plant is also included in the equipment. Absorption and brake dynamometers are used for the measurement of power and other machines are provided for oil testing, compressed air and fan tests. The laboratory equipment for experimental mechanics includes testing machines from 10,000 to 150,000 capacity.

SCHOOL OF LIBERAL ARTS

FRANK GEORGE WREN, A.M., Dean

Standing Committees

CURRICULUM: Dean Wren, *Chairman*; Professors Durkee, Fay, Gray, and Schmidt.

PROMOTIONS: Dean Wren, *Chairman*; Professors Andrews, Denison, Durkee, and Reed.

Faculty of the School of Liberal Arts

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D., PRESIDENT

FRANK G. WREN, A.M., DEAN

Walker Professor of Mathematics

WILLIAM H. REED, A.M., RECORDING SECRETARY

Assistant Professor of Modern Languages

Professors

Arranged in the order of their appointment at Tufts College

CHARLES E. FAY, A.M., LITT.D.

Wade Professor of Modern Languages

FRANK W. DURKEE, A.M.

Chemistry

LEO R. LEWIS, A.M.

History and Theory of Music

FRED D. LAMBERT, PH.D.

Botany

WILLIAM K. DENISON, A.M.

Latin Language and Literature

HENRY C. METCALF, PH.D.

Jackson Professor of Political Science

EDWIN C. BOLLES, PH.D., D.D., LL.D.

Dickson Professor of English and American History

WILLIAM R. RANSOM, A.M.

Mathematics

ALFRED C. LANE, PH.D., SC.D.

Pearson Professor of Geology and Mineralogy

HENRY I. CUSHMAN, A.M., D.D.

Homiletics

HINCKLEY G. MITCHELL, D.D.

Hebrew and Old Testament Exegesis

ARTHUR I. ANDREWS, PH.D.

History and Public Law

KARL SCHMIDT, PH.D.

Philosophy and Education

LEE S. MCCOLLESTER, S.T.D.

Packard Professor of Christian Theology

HERBERT V. NEAL, PH.D.

Zoology

CLARENCE R. SKINNER, A.M.

Applied Christianity

CHARLES H. GRAY, PH.D.

English

HENRY H. MARVIN, PH.D.

Physics

Assistant Professors

Arranged in the order of their appointment at Tufts College

WILLIAM H. REED, A.M.

Modern Languages

ALBERT H. GILMER, A.M.

English

WILLIAM F. WYATT, PH.D.

Greek

Instructors

CROSBY F. BAKER, M.S.

Chemistry

MARY S. BRUCE, A.M.

French

JOSEPH CHANDLER, PH.D.

Organic Chemistry

THOMAS J. CONNER

Director of Physical Training

JOHN L. C. KEEGEN, A.M.

English

NATHANIEL H. KNIGHT, B.S.

Physics

FRANK W. POTE, B.S.

Physics

AUGUSTE L. POULEUR, M.S.

Chemistry

HARRIS RICE, S.B.

Walker Special Instructor in Mathematics

LEPINE H. RICE, PH.B.

Mathematics

EDWIN A. SHAW, M.S.

Education

DONALD S. TUCKER, A.M.

Political Science

Courses of Instruction

In order that the student may pursue studies that are properly correlated and are at the same time adapted to his individual needs and attainments, he is first assigned to a member of the Faculty who acts during the Freshman year as his adviser. The adviser, having ascertained the qualifications and the ambitions of the student, explains to him the several courses of study. The student, prior to May 15, selects as his major department the one in which he plans to do the greater amount of his work. The major instructor of that department acts as the student's adviser during the remainder of his course. The Committee on Promotions has final authority over all plans of study. There are at the present time twelve major departments, each having major instructors as follows:

Department	Major Instructor
Biology	Professor Lambert or Neal
Chemistry	Professor Durkee
English	Professor Gray
French	Professor Fay
German	Professor Fay
Greek	Professor Wyatt
History and Public Law	Professor Andrews
Latin	Professor Denison
Mathematics	Professor Wren
Philosophy and Education	Professor Schmidt
Physics	Professor Marvin
Political Science	Professor Metcalf

The courses offered are as follows:

- I. A general course, leading to the degree of Bachelor of Arts or Bachelor of Science.
- II. A course leading to the degree of Bachelor of Science in Chemistry.

GENERAL COURSE LEADING TO THE DEGREE OF BACHELOR OF ARTS OR BACHELOR OF SCIENCE

Required of All Students

	Hours *
English	6
Mathematics	6
Biology, Chemistry, or Physics	6
Physical Education	2
French, or German, of which at least six hours shall be above intermediate grade.	

Candidates for A.B. must also complete six hours in Greek or Latin.

Majors and Minors

Each candidate for a bachelor's degree must have completed a major in one of the following groups and a minor in each of the two other groups. The purpose of this requirement is that each student shall do a considerable amount of work in one group of studies and at the same time have a reasonable amount of training in the two other groups.

Group 1	Group 2	Group 3
English	Biology	History and Public Law
French	Chemistry	Philosophy and Education
German	Mathematics	Political Science
Greek	Physics	
Latin		

Geology or Mineralogy may be included as a part of the major or minor in an allied science.

A major consists of not less than eighteen hours' work in a single department, but certain subjects, particularly those that are introductory, do not have major value, and, therefore, cannot be counted in composing the eighteen-hour requirement. In the following description such subjects are marked with an asterisk (*) or double asterisk (**).

A minor consists of not less than twelve hours' work in a single department, and may include introductory subjects but a subject marked with a double asterisk (**) cannot be counted in composing the twelve-hour requirement.

* Each department offers a series of subjects for study. The unit indicating the requirements is the *hour*, which represents a subject pursued one hour a week for a term or one half-year. Thus a subject calling for three hours a week for one term represents a requirement of three hours; if it calls for three hours a week for one year, or two terms, the requirement in that subject is six hours.

The regular Freshman program is as follows:

For A.B.		For B.S.	
	Hours		Hours
English	6	English	6
Mathematics	6	Mathematics	6
Biology, Chemistry, or Physics	6	Biology, Chemistry, or Physics	6
Greek or Latin	6	French or German	6
Elective	6	Elective	6
Physical Training	1	Physical Training	1

The Elective of the Freshman year may be chosen from one of the following departments :

Biology	Greek
Chemistry	History
English	Latin
French	Physics
German	Political Science

Students who desire to begin preparation for a definite vocation may arrange continuous courses of study leading to the degree of A.B. and B.S. which will combine special fitness for a chosen field with the general training that every educated man should have.

Those preparing for definite vocations or professions should select major subjects as follows :

Vocation	Major Subjects
Business	Political Science
Consular and Foreign Service . . .	History and Public Law
Forestry	Biology
Journalism	English
Law	History and Public Law
Medicine	Biology

Those desiring to teach should select as a major the subject in which they intend to specialize and should confer with the Department of Education.

II. COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY

The following subjects have been selected and arranged to prepare students for positions in metallurgical laboratories, as chemists with manufacturers or in analytical laboratories, or as assistant chemists for immediate service in the various departments of the United States government. This course may be followed also by those who wish to teach or to do graduate work in Chemistry.

FRESHMAN YEAR

FIRST TERM		SECOND TERM	
	Hours		Hours
English 1	3	English 2	3
Mathematics 14-21	2	Mathematics 14-21	2
Graphics 21-21	1	Graphics 21-21	1
Physics 1	3	Physics 1	3
German	3	German	3
Chemistry 1	3	Chemistry 1	3

SOPHOMORE YEAR

FIRST TERM		SECOND TERM	
	Hours		Hours
German	3	German	3
Chemistry 35-2	2	Chemistry 35-3	2
Chemistry 4	3	Chemistry 4	3
Physics Laboratory 24-7	1	Physics Laboratory 24-7	2
<i>Electives</i>		<i>Electives</i>	
Mathematics		Mathematics	
English		English	
Biology		Biology	
Physics 21	2	Physics 21	1

JUNIOR YEAR

FIRST TERM		SECOND TERM	
	Hours		Hours
Chemistry 5	3	Chemistry 5	3
Chemistry 9	1	Chemistry 7	2
Chemistry 35-10	4	Chemistry 35-10	4
Political Science 1	3	Political Science 1	3
Mineralogy 1	3		
<i>Electives</i>		<i>Electives</i>	
German		German	
English		English	
Mathematics		Mathematics	
History 1		History 1	
Biology		Biology	
		Crystallography	

SENIOR YEAR

FIRST TERM		SECOND TERM	
	Hours		Hours
Chemistry 11	3	Chemistry 11	3
Chemistry 17	3	Chemistry 17	3
Thesis	3	Thesis	3
Geology 5	3	Geology 23	1
		Geology 24	2
		Chemistry 8	2
<i>Electives</i>		<i>Electives</i>	
Biology		Biology	
Chemistry 12		Chemistry 12	
Political Science		Political Science	
Dynamo-Electric Machinery			

SYNOPSIS OF THE REQUIREMENTS FOR GRADUATION

(1) The requirement for the degree of Bachelor of Arts or Bachelor of Science is the satisfactory completion of subjects aggregating one hundred twenty-two term hours, including physical training.

(2) Students are required to attain for graduation a grade of at least C in seventy-two term hours.

(3) Upon the satisfactory completion of the aggregate hour requirement, the student is entitled to receive the Bachelor's degree, but no student will be granted a degree in less than four years of residence, unless he shall have obtained grade B as an average for his entire work.

Departments of Instruction in the School of Liberal Arts

In the following description of subjects, the department and name of the officer in charge are first given; then the several subjects, with the introductory subjects first. Each department has its fixed number and each subject its symbol. When subjects do not continue through the year, (F) means that they occur in the first term and (S) means that they occur in the second. Unless otherwise indicated, instruction in each subject is given three times each week and the credit is three term-hours per half-year. Subjects enclosed in brackets are not offered during the current year. An asterisk (*) indicates that the subject cannot be counted in comprising the eighteen-hour requirement for a major. A double asterisk (**) indicates that the subject cannot be counted in comprising either the eighteen-hour requirement for a major or the twelve-hour requirement for a minor. If fewer than four students apply for an announced subject the subject may be omitted.

ORDER OF THE DEPARTMENTS

The order of the departments of instruction as printed in this catalogue is as follows:

12 English 22 German 32 French 42 Italian 52 Latin 62 Greek
92 Spanish

14 Mathematics 24 Physics 34 Chemistry 44 Biology 54 Geology
64 Mineralogy

16 Philosophy 26 Education 36 History 46 Public Law and Administration
66 Political Science

18 Oratory 28 Classical Archæology 38 Music 88 Physical Training

12 ENGLISH

PROFESSOR GRAY

****12-1. (F)** Freshman Composition. The essentials of composition, with practice in the forms of discourse, chiefly exposition and argumentation. Text-book, lectures, themes, conferences, and library reading. Required in all courses.

PROFESSOR GRAY and Mr. KEEGEN; in Jackson College, PROFESSOR DAVIES

****12-2. (S)** Freshman Composition continued. Further practice in the forms of discourse, chiefly narration and description. Text-book, lectures, collateral reading, themes, and conferences. Required in all courses. PROFESSOR GRAY and Mr. KEEGEN; in Jackson College, PROFESSOR DAVIES.

12-4. (S) Advanced Composition. Study of journalism and practice in newspaper writing. Text-book, analysis of the leading American newspapers, preparation of special articles, and conferences.

ASSISTANT PROFESSOR GILMER

English 12-4 is open to those who have obtained at least grade C in English 12-1 and 12-2.

[12-7. (S) The Forms of Poetry. The principles of versification, with practice in metrical composition, and the study of models of English and American verse. Will be given in 1918-19.

ASSISTANT PROFESSOR GILMER]

12-10. The English Bible as Literature. A study (1) of its various literary forms—narrative, poetry, story, drama, address; (2) of its backgrounds in government, history, geography, and social customs; (3) of the influence of Biblical Literature on all forms of English Literature.

PROFESSOR MCCOLLESTER

12-11. General View of English Literature. Historical outline of the development of English Literature and reading of representative masterpieces. Text-book, lectures, book of selections, and reading reports.

PROFESSOR GRAY and Mr. KEEGEN

Students majoring in English are required to take 12-11 or 12-12, early in their course.

12-12. American Literature. A general survey of American literature, aiming to make clear the characteristics of the most important literary periods, the writers, and their works. Text-book, lectures, reading, and essays.

ASSISTANT PROFESSOR GILMER

12-13. (s) Special study in American Literature. The study of a group of representative authors: Hawthorne, Poe, Holmes, Lowell, and Thoreau. Reading, lectures, reports, and discussions. MR. KEEGEN

12-11 or 12-12 must precede 12-13.

12-17. (F) Shakespeare. A study of the life and times of Shakespeare, and of his development as a dramatist, illustrated by reading a series of selected plays. ASSISTANT PROFESSOR GILMER

12-18. (s) Shakespeare. Critical reading of a few plays not included in 12-17, with special attention to text and problems of research. Lectures, quizzes, investigation, and reports. PROFESSOR GRAY

12-23. (F) The Short Story. Narrative composition based mainly upon the study of the short story. Analysis of the principles of structure, practice-writing, and criticism of original manuscripts in class. ASSISTANT PROFESSOR GILMER

12-24. (F) Poetry of the Nineteenth Century. Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Rossetti, Tennyson, and the Brownings. Lectures, reading, library work, and reports. PROFESSOR GRAY

12-25. Development of the Drama. A comprehensive study of the growth of the drama from its origin in Greece to plays of to-day. Many specimens of dramatic literature, Greek, Roman, English, and American, are read, summarized, and criticised in relation to dramatic principles. ASSISTANT PROFESSOR GILMER

12-29. Seminar; for advanced students specializing in English.
1917-18. (F) The origin of the English Novel and its development to the nineteenth century. (s) The English Novel of the nineteenth century.
1918-19 (F) The Age of Chaucer. The reading of Chaucer's chief works in modernized version, with library reading and lectures on the historical and social background. (s) Milton and his Time. Selected readings from Milton's poetry and prose, with library reading and lectures on the historical and social background. **1919-20,** Tennyson and Browning. An extensive study of the Victorian Age, philosophical as well as literary, based on the chief works of these authors. (F) Tennyson; (s) Browning. PROFESSOR GRAY

12-31. (s) The History of the English Language. The general principles of philology and a general survey of the development of the English Language; presented by text-book and lectures; for prospective teachers especially, but open to all students having had 12-11. PROFESSOR GRAY

12-32. (s) Readings from English Literature. A course in literary appreciation conducted informally; class attendance twice per week and a weekly written report; credit, one term hour. The readings will be given by the members of the English Department; chairman,

ASSISTANT PROFESSOR GILMER

12-36. (s) Prose of the Nineteenth Century. Lamb, De Quincey, Newman, Landor, Ruskin, Carlyle. Lectures, reading, library work, and reports.

PROFESSOR GRAY

The following rules, passed by the Faculty February 26, 1917, apply to the student's English work in other departments:

"In order to provide for the maintenance of a suitable standard of English composition in the College, all instructors will report to the Dean the names of students who are exceptionally poor spellers, or who habitually use English that lacks clearness of expression or logical arrangement of subject matter; when a student has been reported three times for defective English, he shall be referred by the Dean to the English Department, which shall impose such corrective work as it deems necessary; this corrective work shall be regarded as part of the work necessary for the Bachelor's degree."

22 GERMAN

PROFESSOR FAY

****22-1.** Elementary German. The essentials of grammar; reading of simple modern prose; practice in writing simple sentences.

ASSISTANT PROFESSOR REED

German 22-1 is the equivalent of the entrance requirement in Elementary German.

***22-2.** Intermediate German. Reading of modern prose, lyrics and ballads; review of grammatical principles; practice in writing German.

ASSISTANT PROFESSOR REED

German 22-2 is open to entering students who have presented Elementary German for admission.

22-3. Course in advanced reading. Selected works from the literature of the eighteenth and nineteenth centuries.

PROFESSOR FAY and ASSISTANT PROFESSOR REED

German 22-3 is open to entering students who have presented Intermediate German for admission. Either half-year may be taken as a half-subject.

22-3B. German Composition, written and oral.

ASSISTANT PROFESSOR REED

German 22-3B is open to students who have satisfactorily passed German 22-3 or its equivalent.

22-4. Schiller and Goethe. Maria Stuart, Wallenstein; Egmont, and selections from prose works of Goethe. Collateral reading.

PROFESSOR FAY

German 22-4 is open to entering students who have presented Advanced German for admission. Juniors and Seniors whose major department is German may be permitted to take 22-4 and 22-5 in the same year.

22-5. Advanced reading in Lessing and Goethe. Nathan der Weise, Emilia Galotti, Laokoön, von Berlichingen, Tasso, Iphigenie, Faust, Parts I and II, with collateral reading.

PROFESSOR FAY

[**22-6. History of German Literature, with illustrative works for leading epochs.** Middle High German: Bachmann, Mittelhochdeutsches Lesebuch.

PROFESSOR FAY]

32 FRENCH

PROFESSOR FAY

****32-1. Elementary French.** The essentials of grammar, with composition, and the reading of short works of modern authors in prose and verse.

PROFESSOR FAY

French 32-1 is the equivalent of the entrance requirement in Elementary French.

32-1A. Tone-Production and Phonetics with application to the French language.

MISS BRUCE

***32-2. Intermediate French.** Review of grammatical principles, especially with reference to syntax; exercise in composition; vocabulary practice; reading of modern fiction and drama, such as Mérimée's *Colomba* and Sandeau's *Mademoiselle de la Seiglière*.

PROFESSOR LEWIS

French 32-2 is open to entering students who have presented Elementary French for admission.

32-3. Reading of modern authors (Taine or de Vigny, and novelists); introduction to seventeenth-century classics (Corneille, Racine, Molière, Boileau). Review of grammatical principles, with advanced vocabulary practice.

PROFESSOR LEWIS

French 32-3 is open to entering students who have presented Intermediate French for admission. Either half-year may be taken as a half-subject.

32-3B. French Composition. Translation from the English (Talbot's Prose Composition); later from the German, the work being based on Ploetz' *Nouvelle Grammaire Française* and *Uebungen zur Französischen Syntax*. PROFESSOR FAY

French 32-3B is open to students who have completed French 32-3, or its equivalent, and at least one course in German.

32-4. Literature and Manners of the Seventeenth Century. Crane's *Société Française au XVIIe Siècle*; Molière, *Le Misanthrope*, *Les Précieuses Ridicules*, *Les Femmes Savantes*; Boileau, *Les Héros de Roman*; Warren's *French Prose of the Seventeenth Century*. Collateral reading. PROFESSOR FAY

French 32-4 is open to entering students who have presented Advanced French for admission. Juniors and Seniors whose major department is French may be permitted to take 32-4 and 32-5 in the same year.;

32-5. Literature of the Eighteenth and Nineteenth Centuries. The drama, poetry, the novel, the philosophical essay and criticism. Either half-year may be taken as a half-subject. PROFESSOR LEWIS

[**32-6.** Historical Grammar. Old French readings: *Chanson de Roland*, *Villehardouin*, *Joinville*. History of French Literature. Detailed study of sixteenth century, with illustrative texts. PROFESSOR FAY]

42 ITALIAN

PROFESSOR FAY

[**42-1.** Grandgent's *Grammar and Composition*; Bergen's *Italian Reader*; Maffei, *Merope*; Dante, *Divina Commedia* (Scartazzini's edition). PROFESSOR FAY]

The above subject alternates with 92-1 Spanish. These subjects are open to candidates for A.B. who have done satisfactory work in French above intermediate grade.

52 LATIN

PROFESSOR DENISON

***52-1.** Cicero, Selections from the Letters or *De Amicitia*; Livy; Selections of Latin Verse from the earliest period to the late writers, including examples of Latin Hymns. The object aimed at in the second part of the course is to give to those who may not pursue Latin further a general conception of the best Latin verse, and to others a sound basis for more detailed study of certain Latin poets. Literary values will be considered, and some practical aspects of Latin study will be emphasized. PROFESSOR DENISON

Latin 52-1 is introductory to all later subjects.

52-2. Pliny, selected letters; Horace, Odes; Terence, one play; Apuleius, Story of Cupid and Psyche; Petronius, Cena Trimalchionis. This subject introduces the student to the early drama and also to the authors of the Silver Age, and in addition affords opportunity for the detailed study of the Odes of the Augustan poet, Horace. PROFESSOR DENISON

Latin 52-2 is open to students who have completed Latin 52-1.

[52-3. Oxford Selection of Latin Verse, or selections from the Satires of Juvenal and Epigrams of Martial; Cicero; Tacitus; reading at sight.

PROFESSOR DENISON]

52-4. Horace, Satires and Epistles; Plautus, one or more plays; Cicero selected letters; reading at sight. PROFESSOR DENISON

Subjects 52-3 and 52-4 will be given in alternate years, and are designed for those who have completed Latin 52-2, or its equivalent. They may, by special arrangement with the instructor, be taken as half-subjects in either term.

52-5. Latin Composition. This course may accompany Latin 52-1 or be taken later in connection with other subjects offered by the department. *One hour a week.* PROFESSOR DENISON

52-6. Latin Composition. Latin 52-6 is open only to students who have completed Latin 52-5. In it particular attention is paid to idiom and style. By reason of the variation of the work from year to year, the subject may be taken a second time with due credit. *One term hour.* PROFESSOR DENISON

NOTE:—The attention of Greek and Latin students is called to related subjects listed under Classical History and Archæology.

62 GREEK

ASSISTANT PROFESSOR WYATT

***62-1.** Elementary. Goodwin's Grammar; Xenophon, Anabasis; Homer. ASSISTANT PROFESSOR WYATT

Greek 62-1 is intended for students entering without Greek and wishing to begin the study of that language. It is assumed that their previous training in linguistic studies will enable them to proceed rapidly and accomplish in one year all the work usually done in preparation for college. This subject may be taken (without credit) as a normal course by advanced students, on consultation with the instructor. *Double course, six hours a week.*

62-2. Xenophon, Memorabilia; Homer, Odyssey; Euripides, one play. ASSISTANT PROFESSOR WYATT

Greek 62-2 is for students who have passed Greek 1, or the entrance requirements in advanced Greek.

62-3. Herodotus, Books VII and VIII; Æschylus, *The Persians*; Sophocles, *Antigone*; Euripides, *Alcestis*; Plato, *Apology*, *Protagoras*, *Phædo*.

ASSISTANT PROFESSOR WYATT

[62-4. Lyric and Elegiac Poets, to Pindar. Aristophanes: *Clouds*, *Birds*, *Acharnians*, *Frogs*, with study of social life in Athens in the fifth century B. C.

ASSISTANT PROFESSOR WYATT]

[62-5. Theocritus, *Idyls*, with study of the Alexandrine age; Lucian; Homer, the *Iliad*, or the *Odyssey*, entire, with lectures on the results of the more recent investigations of the Homeric question.

ASSISTANT PROFESSOR WYATT]

Subjects 62-4 and 62-5 will be given in alternate years, and are designed for those who have completed Greek 62-3 or its equivalent. They may, by arrangement with the instructor, be taken as half-subjects in either term.

NOTE:—The authors and works enumerated under courses 62-2, 62-3, and 62-4 are not necessarily repeated each year, but are intended to give a general idea of the aim and scope of the courses.

62-6. Greek Composition; practice in sight reading. *One hour a week.*

ASSISTANT PROFESSOR WYATT

Greek 62-6 may be taken by any one who has had the equivalent of Greek 62-1.

[62-7. Greek Composition; reading at sight. *One term hour.*

ASSISTANT PROFESSOR WYATT]

Greek 62-7 is open only to students who have completed Greek 62-6.

NOTE:—No student can be recommended as a teacher of Greek who has not taken at least one subject in Greek composition.

92 SPANISH

ASSISTANT PROFESSOR REED

92-1. Elements of Spanish Grammar, practice in writing Spanish, reading of standard texts, including selections from the *Don Quijote* of Cervantes.

ASSISTANT PROFESSOR REED

The above subject alternates with 42-1 Italian. These subjects are open to candidates for A.B. who have done satisfactory work in French above intermediate grade.

14 MATHEMATICS

PROFESSORS WREN AND RANSOM

14-1. Introductory course. Rounded numbers, trigonometric functions, 4-place logarithms, right triangles. Graphical representation of functions, typical variables. Rectangular coördinates, straight lines, standard curves. Elementary derivatives, rate problems, extreme values. Simple integrals, areas.

PROFESSOR RANSOM, MR. H. RICE, and MR. L. H. RICE

14-5. (F) Elements of Calculus. Differentiation and integration of elementary algebraic and transcendental functions with simple applications.
MR. H. RICE

14-6.* (F and S) Differential and Integral Calculus. A continuation of course 14-5, involving application to mechanics and to the theory of plane curves, the determination of lengths, areas and volumes.

PROFESSOR RANSOM and MR. H. RICE

[14-4. (F) Analytic Geometry. Coördinate systems. Properties of conic sections and higher plane curves. Introduction to three dimensional geometry.
PROFESSOR RANSOM]

14-7. (S) Advanced Calculus. A more critical examination of fundamental methods and their extension to complex quantities. Partial differentiation, line and surface integrals, and the more notable definite integrals.
PROFESSOR RANSOM

[14-8. (S) Modern Geometry. An advanced course in Plane Analytic Geometry involving analysis by means of homogeneous coördinates, interpreting imaginary and infinite elements, and introducing the elementary geometric transformations.
PROFESSOR RANSOM or MR. L. H. RICE]

14-9. (F) Theory of Equations and Determinants. Transformation of equations; cubic and quartic equations; applications of substitution groups; classification of linear simultaneous equations; properties of determinants.
MR. L. H. RICE

14-10. (S) Differential Equations. A problem course in the elementary theory of ordinary and partial differential equations with applications to geometry and mechanics.
PROFESSOR WREN

14-12. (F) Vector Analysis. Sums and products; differential operators; applications to geometry, electricity, and dynamics. PROFESSOR RANSOM

Mathematics 14-12 is open to students who have completed Mathematics 14-1, 14-5, and 14-6.

14-14. (F) Theoretical Mechanics. A problem course dealing mainly with dynamics of a particle, and dynamics of a rigid body. Lectures and recitations. Mathematics 14-6 and 14-10 must precede.

ASSISTANT PROFESSOR MARVIN

14-22. (F or S) Algebra, geometry, and trigonometry. Parts of these subjects will be selected with especial reference to the needs of those intending to teach.
PROFESSOR RANSOM

Not open to Freshmen.

* After 1917-18 in second term only.

24 PHYSICS

PROFESSOR MARVIN

***24-1.** General Physics. An introductory course of lectures, recitations and laboratory work. It is to be elected by students who choose Physics as their prescribed science and who have presented Physics for admission. *Two lectures or recitations and one three-hour laboratory period per week.*

PROFESSOR MARVIN and MR. KNIGHT

Must be preceded or accompanied by Mathematics 14-21.

24-20. General Physics. A course of lectures, recitations and laboratory work intended to acquaint the student with the fundamental principles of Physics. This subject is to be elected by students who have not presented Physics for admission. *Three lectures or recitations and one three-hour laboratory period. Eight term hours.*

PROFESSOR MARVIN and MR. KNIGHT

24-21. Advanced General Physics. The course consists of problems in Mechanics, Heat, Light, and Electricity, with special emphasis on the Gas Laws and other topics introductory to Physical Chemistry. *Preparation Physics 24-1 or 24-20. Two recitations per week. Four term hours.* MR. POTE

24-7. Physics Laboratory. A laboratory course in General Physics intended to follow Physics 24-1 or 24-20. The course is designed to present to the student those physical processes and measurements which are of fundamental importance in scientific and technical work. *One two hour period with one hour preparation per week. Two term hours.*

MR. POTE and MR. KNIGHT

24-2. (F) Electricity and Magnetism. A mathematical treatment of the electric field, the magnetic field, the electric current, electromagnetics, and the electromagnetic field, with a brief discussion of the generation and detection of electric waves. Lectures and recitations. *Preparation Mathematics 14-5.*

PROFESSOR MARVIN

24-6. (S) Wave Motion and Light. A brief treatment of geometrical Optics is followed by a discussion of reflection, refraction, diffraction, interference, polarization, double refraction, emission and absorption from the standpoint of the wave theory. Lectures and recitations. Mathematics 14-5 must precede.

PROFESSOR MARVIN

24-9. (S) Theory of Heat. A discussion of the classical experiments of Regnault, Joule and others, is followed by an introduction to the Kinetic Theory and Thermodynamics, and a discussion of recent developments in the field of Radiation. Lectures and recitations. *Preparation Mathematics 14-5.*

MR. POTE

24-11. (F) Conduction of Electricity through Gases, and Radioactivity. Lectures and recitations, with collateral reading. Reports on original

papers appearing in the literature of the subject are required from time to time. *Preparation Mathematics 14-5.* MR. POTE

24-17. Advanced Physics Laboratory. A course intended to accompany Physics 24-2, 24-6, 24-9, or 24-11. Open to Juniors and Seniors whose major department is Physics, and to other Juniors and Seniors whose qualifications are satisfactory to the head of the department. The course may be pursued for one, two, three or four terms, subject to the approval of the head of the department. *One three hour period per week. Counting as one to four term hours, according to the number of terms in which it is pursued.* PROFESSOR MARVIN and MR. POTE

Mathematics 14 may be counted towards a major in Physics.

34 CHEMISTRY

PROFESSOR DURKEE

*34-1. General Chemistry. A course in theoretical and descriptive inorganic chemistry, with a thorough consideration of the simplest carbon compounds and principal technical processes. This subject is to be elected by those who have presented Chemistry for admission. *Two lectures, and one three-hour laboratory period. Six term hours.*

PROFESSOR DURKEE, MR. BAKER, DR. CHANDLER, and MR. POULEUR

34-20. General Chemistry. An introductory course in theoretical and descriptive inorganic chemistry, with a thorough consideration of the simplest carbon compounds and principal chemical processes. This subject is to be elected by those who have not presented Chemistry for admission. *Three lectures or recitations, and one three-hour laboratory period. Eight term hours.*

PROFESSOR DURKEE, MR. BAKER, DR. CHANDLER, and MR. POULEUR

35-2. (F) Qualitative Analysis for the detection of the metals, a course which includes the experimental development of schemes for the division of the metals into groups, the separation and detection of the metals in each group,—a study of all the chemical changes and analytical details, together with the correct analysis of six known solutions and thirteen unknown. Lectures, laboratory work and recitations. *Two three-hour periods. Two term hours.* PROFESSOR DURKEE, MR. BAKER, and ASSISTANTS

35-3. (S) Qualitative Analysis. Advanced, dealing with methods to effect solution of solids, the detection of mineral and common organic acids, the complete analysis of inorganic solids, including mixtures of salts, minerals, alloys, and slags. Three known and thirteen unknown are required, and thorough study of the chemical changes and conditions involved in the analyses. Lectures, laboratory work, and recitations. *Two three-hour periods. Two term hours.* MR. BAKER and ASSISTANT

34-22. Qualitative Analysis. A more extended treatment than that given in 35-2 and 35-3. Preparation 34-1. Open to all who are not engineering, or B.S. in chemistry students. Lectures, recitations, and laboratory work. *Three three-hour periods. Six term hours.*

PROFESSOR DURKEE and MR. BAKER

34-4. Quantitative Analysis. Theory and practice of gravimetric and volumetric analysis, including the determination of chlorine by the ordinary and Gooch crucible methods, iron and sulphur in ferrous ammonium sulphate, silica in a silicate, phosphorus in a phosphate, complete analysis of dolomite, and brass, preparation of strictly half-normal sodium hydroxide and hydrochloric acid solutions, the volumetric analyses of soda ash and oxalic acid, the analysis of iron ore by the dichromate and permanganate methods, determination of chromium in chromite, of antimony by the iodine method, and silver by the sulphocyanate method. Lectures and laboratory work. *Three three-hour periods. Six term hours.*

PROFESSOR DURKEE and MR. BAKER

34-5. Quantitative Analysis. Technical. Work varied somewhat to meet the needs of individual students. Course ordinarily comprises proximate analysis of coal, nitrogen in coal, by Kjeldahl's method, complete analysis of boiler scale, mineral and sanitary analysis of water, determination of copper in ores by iodine and cyanide methods, of zinc by ferro-cyanide method, complete analysis of Babbitt metal, determination of lead in ores, and manganese, sulphur, phosphorus, silicon and carbon in iron and steel. Organic analysis. Laboratory work. *Three three-hour periods. Six term hours.*

PROFESSOR DURKEE

34-7. (s) Fire Assay. A course which deals with the theory and practice of sampling and assaying gold and silver ores. Open to students who have taken 34-1, 34-2, 34-3, and 34-4. *Two three-hour periods. Two term hours.*

PROFESSOR DURKEE, MR. BAKER, and MR. POULEUR

34-8. (s) Metallurgy of Iron and Steel, considered largely from the chemical side and includes the study of ores, fluxes, fuels, furnaces, and the other mechanical devices used in the commercial production of pig iron, wrought iron, and steel, together with the solution theory of iron and steel, heat treatment of steel, and production of malleable cast iron. Metallurgy of Gold and Silver is an alternative. Lectures, recitations, and laboratory work. Chemistry 34-8 is open to students who have taken Chemistry 34-1. *Two lectures a week. Two term hours.*

MR. BAKER

34-9. (F) Gas Analysis, by the Orsat, Elliot, and Hempel systems. Lectures and laboratory work. Chemistry 9 is open to students who have taken Chemistry 34-1, 34-2, 34-3, and 34-4. *One three-hour period. One term hour.*

MR. POULEUR

35-10. Organic Chemistry. This course consists of lectures, recitations, and laboratory work. It is intended to familiarize the student with the typical compounds of carbon and their more important derivatives. The work in the laboratory includes the preparation of certain of the more important substances referred to in the lectures, and the identification of certain classes of compounds. Lectures, recitations, and laboratory work. Chemistry 35-10 is open to students who have taken Chemistry 34-1. *Three lectures and one three-hour laboratory period. Eight term hours.*

DR. CHANDLER and ASSISTANT

34-11. Physical Chemistry. The subject matter of this course consists largely of the principles usually included under the head of Physical Chemistry. The work in the laboratory consists of physical chemical measurements and experiments of a physical chemical nature. Lectures, recitations, and laboratory work. Chemistry 34-11 is open to students who have taken Chemistry 34-1, 34-2, and 34-4. *Two lectures and one three-hour laboratory period. Six term hours.*

DR. CHANDLER

34-12. (F) Discussion of Chemical Subjects and Recent Investigations. *One hour a week.*

PROFESSOR DURKEE and DR. CHANDLER

34-17. Applied Chemistry. A course dealing with the most important applications of inorganic and organic chemistry to manufacturing purposes, such as the production of sulphuric acid, soda, illuminating gas, and sugar. Lectures, visits to plants, text-book work, and recitations. *Two lectures or recitations and one three-hour laboratory period. Six term hours.*

PROFESSOR DURKEE

34-16. Thesis. Investigation of a problem in Inorganic, Organic, or Technical Chemistry. Open to students of A.B. and Science Courses who have satisfactorily completed Chemistry 34-1, 34-2, 34-3, 35-4, 34-5, and 35-10. *Nine laboratory hours a week. Six term hours.*

PROFESSOR DURKEE and DR. CHANDLER

34-19. (F) Chemistry. This course is primarily intended to enable the students to acquire facility in reading chemical German. The work consists of recitations and special reports on assigned subjects. These assignments are chiefly to articles in the German chemical journals. Open to Juniors and Seniors, candidates for A.B. or B.S., taking chemistry as a major subject, who have had not less than two years of college German or its equivalent.

DR. CHANDLER

44 BIOLOGY

PROFESSORS NEAL AND LAMBERT

***44-1.** General Biology. A course in the principles of animal and plant biology, presenting the fundamental facts of vital structure and function with special emphasis upon the vertebrates and flowering plants. Some

conception of the evolution of plants and animals is given by the laboratory study of a series of types beginning with the unicellular. The student is advised to take field work in ornithology (Biology 44-13) in conjunction with Biology 44-1. *Two recitations and three hours of laboratory work. Six term hours.*

PROFESSORS NEAL and LAMBERT

44-3. Vertebrate Morphology. A course in the phylogeny of man and mammals. The laboratory work consists largely of the dissection of the dogfish and cat. Each organ system is studied with reference to its development, anatomy and physiology. Open to all students who have completed Biology 44-1. *Two lectures or recitations and three hours of laboratory work. Six term hours.*

PROFESSOR NEAL

44-4m. (s) Human and Comparative Physiology. Lectures, recitations, conferences, and laboratory work. Given at the Medical School. *Hours and credit to be arranged.*

DR. RYAN

44-5m. (F) Histology, Medical. Lectures, quizzes, and laboratory work given at the Medical School. *Hours and credit to be arranged.*

PROFESSOR BATES

44-7. Botany. Lectures and laboratory work. An advanced course in plant morphology and physiology, open to students who have taken Biology 44-1. *Two lectures and three hours of laboratory work. Six term hours.*

PROFESSOR LAMBERT

44-8. Special Work. The investigation of some problem. Open to those who have taken three courses in biology. *Hours and credits to be arranged.*

PROFESSORS NEAL and LAMBERT

44-9m. (F) Human Anatomy. Lectures, quizzes, and dissection. Given at the Medical School. *Hours and credit to be arranged.*

DR. SULLIVAN

44-11. Microscopical Technique. A laboratory course designed to introduce the student to the methods used in the preparation of plant and animal tissues for the microscope. Open to students who have completed Biology 44-3 or 44-7. *Six hours of laboratory work. Four term hours.*

PROFESSOR LAMBERT

44-12. Theoretical Biology. A reference reading and thesis course designed to introduce the student to some of the more important literature dealing with the scientific and philosophical problem of man's place in nature. A thesis based upon reference reading and dealing with the problem of the physical and mental evolution of man is required. Open to Seniors and Juniors but may not be offered as a part of the science requirement for a degree. *One lecture, one conference hour and four hours of reference reading. Six term hours.*

PROFESSOR NEAL

44-13. (s) Ornithology. A field and laboratory course in the study of our native birds. To be taken in conjunction with Biology 44-1. *One three hour laboratory period or field trip a week. One term hour.*

PROFESSOR NEAL

54 GEOLOGY

PROFESSOR LANE

54-1. (s) Physical Geology and Geography. Primarily intended for Jackson students who may wish to teach Physical Geography in high schools, but there is also room for engineering students who cannot find place for 54-5 and 54-23 and 54-24. The text-books are Tarr (New Physical Geography) and Tarr & Von Engel (Laboratory Manual of Physical Geography). A few lectures in geology will be given. *Three periods a week and seven required Saturday afternoon excursions.*

PROFESSOR LANE

54-5. (F) Physical Geology. A study of the processes which have left their records on the earth. Frequent excursions. *Wednesday 5, 6, 7, 8 and Friday 6.*

PROFESSOR LANE

A knowledge of Chemistry, Physics and Trigonometry is presupposed.

54-23. (s) Economic Geology. The various natural sources of supply for man's needs and the economic and geologic principles governing their valuation and development. The instruction is chiefly by lectures and the work is mainly collateral reading. This subject is best taken with 54-24 and preceded by some course in Geology or Mineralogy. *One period a week. One term hour.*

PROFESSOR LANE

54-24. (s) Historical Geology. A study of the geological periods, with field excursions and laboratory work on fossils. *Wednesday 5, 6, 7, 8 and Friday 6. Two term hours.*

PROFESSOR LANE

Geology 54-1 or 54-5 must precede; Biology 44-1 is helpful.

[54-3. Mathematical Problems presented to geologists. Conferences and critical reading of selected papers and original work. Mathematics 4 must precede Geology 54-3; Mathematics 14-6 must precede or accompany it. *Three term hours each half-year.*

PROFESSOR LANE]

[54-4. Field Geology. Conference, one hour; field work, six hours a week; open to students who have taken Geology 54-24. *First part of first and last part of second half-year. Three term hours.*

PROFESSOR LANE]

64 MINERALOGY

PROFESSOR LANE

Professor Lane would be glad to advise students wishing to take a thesis subject in Chemistry or Mathematics of geological, mineralogical or crystallographic interest.

64-1. (F) Mineralogy and Lithology. Open to students who have taken Chemistry 34-1. *Two recitations and four hours of laboratory work or excursion. Counting as three term hours.* PROFESSOR LANE

[64-2. (S) Crystallography and Advanced Mineralogy. Open to students who have taken Mineralogy 64-1. *Two lectures and four hours laboratory work and field excursions. Counting as three term hours.* PROFESSOR LANE]

16 PHILOSOPHY

PROFESSOR SCHMIDT

16-1. (F) Introduction to Philosophy. The course attempts to give the beginner in philosophy a perspective of what philosophy is about and what kind of help it may give him. PROFESSOR SCHMIDT

16-2. (S) Introduction to Philosophy. A continuation of the preceding. PROFESSOR SCHMIDT

16-3. (F) Logic. An elementary exposition of logic, in the modern sense of the word, of critique of cognition, structure of systems, and scientific methods. PROFESSOR SCHMIDT

16-4. (S) Logic. The "new" logic. An introduction to the calculus of classes and propositions; with applications. This course presupposes Philosophy 16-3. PROFESSOR SCHMIDT

16-55. Psychology. An elementary lecture course. Normal human psychology will form the main subject of the course; but abnormal and supernormal phenomena will be studied in so far as they shed light on normal psychology. Lectures, illustrative experiments, conferences. PROFESSOR SCHMIDT

[16-8. Ethics. A critical survey of the evolution of ethical ideals, followed by a constructive theory. But the main emphasis of the course will be laid on the application of the theory to the problems of the modern world of action. PROFESSOR SCHMIDT]

[16-16. (F) Experimental Psychology. An elementary laboratory course; open only to those who either have finished or are taking the course in General Psychology (16-55). Nine hours of laboratory work counting for three term hours. PROFESSOR SCHMIDT]

26 EDUCATION

PROFESSOR SCHMIDT

16-55. Psychology. This course is listed in the Department of Philosophy. It is recommended that students who expect to teach take this course during the Sophomore year, as it is required for all courses in Education except 26-1.

26-1. (F) Principles of Education. Brief introductory study of the Educational Reformers. PROFESSOR SCHMIDT

[26-2. (S) Child Study. Child psychology; the relation of the school to child welfare including a discussion of such problems as school hygiene, backward children, juvenile delinquents and public play grounds; principles of moral and religious education. PROFESSOR SCHMIDT]

26-4. (S) Educational Psychology. A study of the application of psychology to the problems of education. PROFESSOR SCHMIDT

This course may be taken during the second term of the year in which the course in General Psychology 16-55, is taken.

26-5. (F) Principles of Secondary Education. MR. SHAW

This course presupposes 26-1 and 26-4; it is meant primarily for those who expect to make secondary-school teaching their profession.

[26-6. (S) Principles of Secondary Education (continued). MR. SHAW]

26-7. (S) Practice Teaching. Teaching under supervision in the schools of Arlington, Medford, Somerville, Chelsea and Winchester. Only students who have finished 26-5 will be permitted to take this course. No student will be recommended by the Department of Education for a teaching position, unless he has shown teaching ability in the course in practice teaching.

MR. SHAW

36 HISTORY

PROFESSOR ANDREWS

*36-1. The introductory course, designed to give a comprehensive view of the various political, religious, industrial, and social factors that have contributed to the Europe of today, and thus to pave the way for a more detailed study of limited periods. The field is in medieval and modern European history and emphasis is distinctly on the modern period. Text-books, lectures, assigned reading and thesis. PROFESSOR ANDREWS

Students desiring to take as many subjects as possible in the department should elect History 36-1 and 36-2 early in their course. In History 36-9, 36-11, and 36-15 a reading knowledge of French is useful.

36-2. General History of England. Text-book, lectures, analyses, and themes. PROFESSOR BOLLES

36-3. General History of America. Text-book, lectures, analyses, and themes. PROFESSOR BOLLES

36-9. The History of Eastern Europe from the earliest times to the present day. This subject includes the history, religions, institutions, and political and economic conditions of the countries and peoples of the

Nearer East, including, especially, Russia, Poland and other Slavic nations, the Byzantine Empire, the Balkan States and the Ottoman Empire, with some attention to Asia Minor, Egypt and Northern Africa. Lectures, discussions, assigned reading and thesis. PROFESSOR ANDREWS

The second half-year may be taken separately by special permission of the instructor.

[36-11. Recent European History. Europe from the period of the French Revolution to the Outbreak of the War in 1914, including the formation and development of the present European governments and a study of international relations. PROFESSOR ANDREWS]

The second half-year may be taken separately by special permission of the instructor.

36-15. Pro-Seminar in History and Public Law. Investigation of selected topics from the sources. During the year 1917-18 the subject of study will be a comparison of political and economic conditions in Latin America, Russia, and the Far East. History 36-15 is open only to such students as receive the special permission of the instructor. *Hours and credit to be arranged with the instructor.* PROFESSOR ANDREWS

46 PUBLIC LAW AND ADMINISTRATION

PROFESSOR ANDREWS

46-1. (F) Political Institutions of the United States—Federal, State, and Municipal. The framework of American government is studied but emphasis is placed upon its actual working as modified by usage and existing conditions. Political parties, their place and development will be given due emphasis. Attempts will be made to study at close range the machinery of state and local legislative bodies. Each student will be given an opportunity to report on the governmental conditions in the locality with which he is most familiar. Text-book, lectures, discussions and thesis. PROFESSOR ANDREWS

History 36-1 should precede or accompany any subject in Public Law but students may be admitted to classes by special permission of the department. Students desiring to take all the subjects in this group should elect History 36-1 in their first year, and Public Law 46-1, or its alternate, in their second year.

46-3. (S) Modern English Government. Detailed study of the actual working of the English government. Attention will be given to the procedure of Parliament and its relation to the executive, to the administrative structure, the organization and influence of political parties, and colonial relations. Comparisons with American and Continental political conditions will be attempted. Text-book, lectures, assigned reading, and thesis.

PROFESSOR ANDREWS

46-4. (F) European Government and Politics. A study of the constitutions of the chief European states, together with the consideration of the most important questions of European politics. A reading knowledge of French is desirable. Text-book, lectures, assigned reading, and thesis.

PROFESSOR ANDREWS

46-5. (S) Elements of International Law. Text-book, lectures, discussion, and assigned reading. Seniors and graduates only.

PROFESSOR ANDREWS

[46-8. (S) Colonial Governments: The governments of colonies and dependencies throughout the world. Attention will be given to the history of modern colonization, to past and present experiments in administration, and to the international aspects of the colonial development of modern nations. Lectures, assigned reading and thesis. PROFESSOR ANDREWS]

[46-10. International Law and Modern Diplomacy. The history of international law and consideration of its leading principles and practice. Cases in recent diplomatic procedure will be used. Textbook, lectures, discussions and assigned reading. PROFESSOR ANDREWS]

66 POLITICAL SCIENCE

PROFESSOR METCALF

*66-1. Elements of Economics. (a) First semester: a consideration of the fundamental concepts of economics. The factors of production, exchange, distribution and consumption; the services of land, labor, capital and managerial ability; the laws of wages, rent, interest and profits. (b) Second semester: a study of present day economic problems. The corporation, trusts, railways, monopolies, tariff and free trade. The rise of the modern labor problem; types of labor unions, of employers' associations, of industrial peace agencies; woman labor and the minimum wage; child labor, industrial education and vocational guidance; mis- under- and unemployment; industrial accidents, occupational diseases, poverty and workingmen's insurance; profit-sharing, coöperation and welfare schemes. The effects of immigration on our economic, social and civic life; the beginnings, teachings and progress of modern socialism, its relation to trade unionism, syndicalism and anarchism. The relation of the State to industry. The aim of this course is to present economic and social movements and their underlying causes in such a way as to give to the non-specialist, whatever his future work may be, an intelligent understanding of current industrial problems and tendencies. Lectures, quizzes, text, assigned readings.

PROFESSOR METCALF

Economics 66-1, or its equivalent, is introductory to all the other subjects offered by the department.

[66-2. (F) Modern Industrial History of Europe. A survey of existing industrial society in terms of development. The local industry of feudalism, the manorial and guild systems, the rise of nationalism, custom and competition, the effects of the Industrial Revolution on the development of technique, the separation of industrial functions, concentration of wealth, the growth of industrial institutions, and the theory of industrial change; the effects of the machine process upon social life and institutions. Lectures, text and assigned readings. PROFESSOR METCALF]

[66-22. (S) Economic History of the United States. Brief consideration of economic conditions in the colonies; the growth of western settlement; economic relations growing out of slavery and the Civil War; study of the growth of agriculture, mining, manufacture, transportation and the resultant types of domestic and foreign commerce; brief survey of national legislation on currency, finance, taxation, including the tariff, together with its relation to industry and commerce. Lectures, text and assigned readings. PROFESSOR METCALF]

66-3. (F) Elements of Sociology. A general course in the foundations of sociology, including a survey of social origins, social evolution and some account of the prevailing types of social activities of present day society. Methods of social control—law, belief, public opinion, social suggestion. Social organization, social ideals and theories of social progress. Lectures, text, readings, discussion. PROFESSOR METCALF

66-13. (S) Social problems. A study of current problems in sociology: population, the family, child welfare, the woman movement; the assimilation of the foreign elements in American population; rural isolation and city, congestion; problems of poverty, delinquency and dependency. Movements for social betterment such as improved standards of living, housing, and civic recreation. Lectures, readings, discussion. PROFESSOR METCALF

66-4. (F) Principles of Public Finance. Public expenditures; classification of public revenues; recent reforms in taxation; the development and significance of public debts; financial administration; recent European and American works on finance. Lectures, discussions, text. MR. TUCKER

66-5. (S) Fiscal History of the United States: an historical course, with special reference to the financial experience of the United States. Leading topics are Hamilton's financial system; protection and revenue tariffs; the bank question; the fiscal policy of the Civil War; resumption of specie payments; the national banking system; state and local taxation; silver legislation and the panic of 1893; government loans; resumé of recent financial legislation. Lectures, discussions, text. MR. TUCKER

66-6. (F) Modern Industrial Combinations. The economics of corporations with special reference to the so-called trust problem. Among the topics treated are trust promotion, capitalization, trusts and industrial efficiency, influence of combinations upon prices, profits, wages, rights of investors, international trade, industrial stability and business honor; the practical results attained through publicity, taxation, recent court decisions and State regulation. Lectures, recitations, reports, text.

PROFESSOR METCALF

66-16. (S) Modern Labor Problems. This subject deals mainly with the social and economic problems arising from the relations of employers and their laborers. The chief topics will be the growth, methods and aims of modern associations of wage earners; methods of conciliation and arbitration; strike and factory legislation; employers' liability and recent compensation acts; compulsory publicity; provident institutions and friendly societies; the relation between trade unions and scientific management. Each member of the class will be expected to make a report upon a labor union. Lectures and recitations, text.

PROFESSOR METCALF

66-17. Business Organization and Administration. This course treats of the various types of business organization, management and administration; plant equipment; problems of internal organization; modern business practice in selecting, placing and training employees; methods of remuneration and promotion; just relations between employer and employee. A critique of the various efficiency systems, with special reference to the principles and practice of scientific management, their scope, application, economic and social results. The ideal business administrator. The place of vocational guidance in the field of business and industry. Students desiring to prepare for executive and administrative positions will find this course of particular assistance. Lectures, discussions, and reports.

PROFESSOR METCALF

Either half-year may be taken as a half-subject.

66-19. (F) Transportation Problems. The economic, financial and social problems arising from modern systems of transportation, with special reference to railway transportation, in the United States. The chief topics are: brief historic survey of water and railway transportation; railway charters, powers of directors and stockholders, the nature of railway securities; railway traffic; fares, rate making, rebates, pooling and railway consolidations; the American systems of State railway commissions, the Interstate Commerce Commission, the recent extensions of Federal control; the effects of transportation systems upon industrial competition. Lectures and recitations.

MR. TUCKER

66-20. (S) Immigration. A study of immigration into the United States, the racial elements represented and their geographical distribution;

the effects of immigration upon our economic and social life and the influence of America upon the newcomer; the history of restrictive legislation and the arrangements provided for the care of aliens. MR. TUCKER

66-7. (S) The History of Economics: an account of the beginnings, the progress, and the various schools of economic science; study of the writings of Adam Smith, Ricardo, Mill and others. Political Science 66-7 is open to advanced students who are specializing in the department. A reading knowledge of French and German is desirable.

PROFESSOR METCALF

This course is open to graduate students only.

66-9. Seminar in Economics and Sociology, designed for advanced students who are specializing in the department. Questions in economics, statistics or sociology may be selected. *Hours and credit to be arranged.*

PROFESSOR METCALF

18 ORATORY

ASSISTANT PROFESSOR GILMER

18-1. (S) The Principles of Oratory. Enunciation and pronunciation; attitude and gesture; declamation; delivering of speeches, extempore and prepared; final original oration. ASSISTANT PROFESSOR GILMER

18-2. (F) Argumentation and Debate. Impromptu and prepared debate. Individual criticism. ASSISTANT PROFESSOR GILMER

28 CLASSICAL HISTORY AND ARCHÆOLOGY

PROFESSOR DENISON AND ASSISTANT PROFESSOR WYATT

[28-1. (F) Greek and Roman Architecture. In this course a special effort will be made to trace the influence of Greek and Roman Architecture on the architecture of subsequent periods, particularly of our own time; and also to treat later styles sufficiently to make clear fundamental differences and inspire the student to further reading and study. PROFESSOR DENISON]

The instruction in this and the following courses will be by means of lectures, class reports and lantern slides.

[28-2. (S) Greek and Roman Sculpture. The twofold purpose of this course is, to inspire in the student a love for the beautiful, and to enable him to gain some understanding of the bases of present-day art and the principles of its interpretation. ASSISTANT PROFESSOR WYATT]

28-3. (F) Roman Private Life. PROFESSOR DENISON

[28-4. (S) Greek Private Life. ASSISTANT PROFESSOR WYATT]

In subjects 28-3 and 28-4 there will be systematic treatment of such topics as birth, education, marriage, death, the house, furniture, dress, meals, amusements, careers and occupations.

[28-5. (F) Roman Religion and Public Life. In this course special stress will be laid on the Roman Religion, but there will be systematic study of other topics such as the topography of Rome, political, legal and military institutions, measures and money, books, inscriptions, chronology and calendar. PROFESSOR DENISON]

28-6. (s) Greek Mythology and Religion. The underlying principles of Greek religion will be considered. The Myths will be treated in their relation to ancient and modern literature and art. Textbook (Fairbanks, Greek Mythology). ASSISTANT PROFESSOR WYATT

28-7. (F) Greek History; from the earliest times to the death of Alexander, with consideration of the sources. Textbook (Bury).

ASSISTANT PROFESSOR WYATT

28-8. (s) History of Rome; from the beginnings of the city to the Fall of the Western Empire, with study of the sources. PROFESSOR DENISON

38 MUSIC

PROFESSOR LEWIS

38-9. (F) Musical Appreciation, Elementary. Systematic studies in musical essentials from the listener's standpoint. PROFESSOR LEWIS

For Music 38-9 no technical preparation is requisite, but ability to recognize a melody is presupposed. Ability to follow a piano score is very helpful. Outside reading and laboratory study with automatic instruments are required. Music 38-9 is given in Tufts and Jackson in alternate years. In 1917-1918 it is given in Tufts.

38-10. (s) Musical Appreciation, Intermediate. A continuation of Music 38-9. PROFESSOR LEWIS

[38-1. (F) Elements of Theory. Lectures, practice, and analysis, with various text-books for reference. PROFESSOR LEWIS]

Only acquaintance with musical notation and with the piano keyboard is required. Music 38-1 is introductory to Music 38-21.

[38-21. (s) Harmony. Lectures and practical work, based on Chadwick's Manual of Harmony; collateral reading on biography and theory.

PROFESSOR LEWIS]

38-22. (F) Advanced Harmony and Elementary Counterpoint. A continuation of Music 38-21. PROFESSOR LEWIS

A full equivalent of Music 38-1 and 38-21 must have been done by students who wish to begin their college work with Music 38-22.

[38-3. (s) Sight-reading in Song, and Harmonic Analysis.

PROFESSOR LEWIS

Only those who have finished Music 38-22 may take Music 38-3. The harmonic analysis begun in Music 38-22 is continued, with special attention to the problems of modern music. Harmonic Analysis, by B. Cutter, and Melodia, by Cole and Lewis, are the text-books.

38-24. (s) Counterpoint. Lectures and practical work, based on the manuals of Goetschius, Spalding, and others; collateral reading on biography and theory. PROFESSOR LEWIS

Laboratory work with the automatic instruments is required.

[38-6. (s) General History of Music, from the earliest times to the present day, with special attention to the period since the death of Palestrina. Lectures, with various treatises for reference. PROFESSOR LEWIS]

[38-25. Studies in one or more of the following subjects: Canon, Fugue, Orchestration, Form, Free composition, Musical History, Musical Criticism. PROFESSOR LEWIS]

The studies may be directed by lectures, or may consist of individual work of students under the supervision of the instructor. Requirements as to previous studies in Music and in foreign languages will be given on application to the instructor.

88 PHYSICAL TRAINING

THOMAS J. CONNOR, Director

The aim of the department is to secure the interest and participation of the students in such exercises and training as they need for corrective, hygienic, and recreative purposes.

Lectures on anatomy, physiology, and personal hygiene are given during the second term of the Freshman year. Regular class exercises in the gymnasium during the winter, and outdoor exercise in the fall and spring, are required two hours a week of all undergraduate students, for the first two years following admission to college. A medical examination is given and physical measurements and strength tests of all students are taken.

THEOLOGY

All the subjects offered in the Theological School are open to election by qualified students in the School of Liberal Arts.

Time-Schedule for 1917-18

(Subject to Revision)

SCHOOL OF LIBERAL ARTS AND JACKSON COLLEGE

Initials are used for the days of the week. The numeral following these letters indicates the program-hour, not the time of day. The working day is divided into nine periods as follows:

1	8.00	6	2.10
2	8.50	7	3.10
3	9.50	8	4.10
4	11.10	9	5.10
5	12.10		

Thus *MWF 2* means Monday, Wednesday and Friday at 8.50; *TTS 4* means Tuesday, Thursday and Saturday at 11.10.

(F) indicates that the subject is offered for the first half-year only. All subjects not so indicated extend through both terms.

The hour for the Tufts division is indicated by the letter T; for the Jackson division by J. All subjects not so indicated are open to students of both colleges.

For description of the subjects, students are referred to the departmental statements in the catalogue.

12-1 (F) English T <i>MWF 3</i> or <i>TTS 3</i> ; J <i>MWF 2</i> or <i>4</i>	14-10 (S) Mathematics <i>TTS 2</i>
12-2 (S) English T <i>MWF 3</i> or <i>TTS 3</i> ; J <i>MWF 2</i> or <i>4</i>	14-12 (F) Mathematics *
12-4 (S) English <i>TTS 3</i>	14-14 (F) Mathematics *
12-10 English <i>TTS 3</i>	14-22 (F or S) Mathematics *
12-11 English <i>MWF 5</i>	16-1 (F) Philosophy <i>TTS 4</i>
12-12 English <i>MWF 2</i>	16-2 (S) Philosophy <i>TTS 4</i>
12-13 (S) English <i>TTS 5</i>	16-3 (F) Philosophy <i>MWF 4</i>
12-17 (F) English <i>MWF 3</i>	16-4 (S) Philosophy <i>MWF 4</i>
12-18 (S) English <i>MWF 2</i>	16-55 Philosophy <i>MWF 2</i>
12-23 (F) English <i>MF 78</i>	18-1 (S) Oratory <i>MWF 4</i>
12-24 (F) English <i>TTS 2</i>	18-2 (F) Oratory <i>MWF 4</i>
12-25 English <i>TTS 4</i>	22-1 German <i>TTS 3</i>
12-29 English <i>Tu 67 Th 6</i>	22-2 German T <i>MWF 2</i> ; J <i>MWF 3</i>
12-31 (S) English <i>TTS 4</i>	22-3 German T <i>MWF 4</i> ; J <i>MWF 4</i>
12-32 (S) English <i>TT 7</i>	22-3B German <i>TTS 4</i>
12-36 (S) English <i>TTS 2</i>	22-4 German <i>MWF 5</i>
14-1 Mathematics T <i>MWF 2, 3</i> or <i>4</i> or <i>TTS 2</i> ; J <i>TTS 2</i> or <i>3</i>	22-5 German <i>TTS 5</i>
14-5 (F) Mathematics <i>TTS 4</i>	24-1 Physics <i>Tu S 4</i> , Laboratory <i>W Th or F 678</i>
14-6 (F and S) Mathematics <i>TTS 2</i>	24-2 (F) Physics *
14-7 (S) Mathematics *	24-6 (S) Physics *
14-9 (F) Mathematics <i>TTS 3</i>	24-7 Physics <i>W 123</i> or <i>678</i>
	24-11 (F) Physics *
	24-17 Physics *

* Hours to be arranged.

- 24-20 Physics *TTS 4*, Laboratory
on *W Th* or *F 678*
- 24-21 Physics *TT 5*
- 26-1 (F) Education *TTS 1*
- 26-4 (s) Education *TTS 1*
- 26-5 (F) Education *MWF 1*
- 26-7 (s) Education *MWF 1*
- 28-3 (F) Class. Arch. *MWF 4*
- 28-6 (s) Class. Arch. *MWF 4*
- 28-7 (F) Class. Arch. *MWF 5*
- 28-8 (s) Class. Arch. *MWF 5*
- 32-1 French *MWF 6*
- 32-1A French *
- 32-2 French *MWF 2*
- 32-3 French T *MWF 4*; J *MWF 6*
- 32-3B French *TTS 4*
- 32-4 French *TTS 2*
- 32-5 French *TTS 3*
- 34-1 Chemistry *TT 5*
Laboratory *Tu* or *Th 678*
- 34-4 Chemistry *TTS 123*
- 34-5 Chemistry *TTS 123*
- 34-7 (s) Chemistry *WF 678*
- 34-8 (s) Chemistry *WF 4*
- 34-9 (F) Chemistry *F 123*
- 34-11 Chemistry *MF 5*; *W 123*
- 34-12 (F) Chemistry *
- 34-16 Chemistry *
- 34-17 Chemistry *TT 8*; *M 123*
- 34-19 (F) Chemistry *
- 34-20 Chemistry *TTS 5*
Laboratory *Tu* or *Th 678*
- 34-22 Chemistry *MWF 123*
- 35-2 (F) Chemistry *MF 123* or *678*
- 35-3 (s) Chemistry *MF 678*
- 35-10 Chemistry *TTS 5*; *M* or
W 678
- 36-1 History *MWF 5* or *TTS 4*
- 36-2 History *TTS 4*
- 36-3 History *MWF 4*
- 36-6 History *TTS 5*
- 36-15 History *
- 38-9 (F) Music T *
- 38-10 (s) Music T *
- 38-22 (F) Music *Tu 6 Th 67*
- 38-24 (s) Music *
- 38-25 Music *
- 44-1 Biology *TT 6789*
- 44-3 Biology *MF 6789*
- 44-7 Biology *MF 6789*
- 44-8 Biology *
- 44-11 Biology *MF 6789*
- 44-12 Biology *TT 5*
- 44-13 (s) Biology *S 1*
- 46-1 (F) Public Law *MWF 3*
- 46-3 (s) Public Law *MWF 3*
- 46-4 (F) Public Law *MWF 4*
- 46-5 (s) Public Law *MWF 4*
- 52-1 Latin T *TTS 3*; J *TTS 4*
- 52-2 Latin *MWF 3*
- 52-3 Latin *TTS 2*
- 52-5 Latin *
- 52-6 Latin *
- 54-1 (s) Geology *TTS 3* or *4*
- 54-5 (F) Geology *W 5678*; *F 6*
- 54-23 (s) Geology *W 5*
- 54-24 (s) Geology *W 678*; *F 6*
- 62-1 Greek *MWF 3*; *TTS 2*
- 62-2 Greek *TTS 5*
- 62-3 Greek *TTS 3*
- 62-6 Greek *
- 64-1 (F) Mineralogy *M 45*; *TT 67*
- 66-1 Pol. Science *TTS 4*
- 66-3 (F) Pol. Science *MWF 2*
- 66-4 (F) Pol. Science *TTS 3*
- 66-5 (s) Pol. Science *TTS 3*
- 66-6 (F) Pol. Science *MWF 3*
- 66-7 (s) Pol. Science *
- 66-9 Pol. Science *
- 66-13 (s) Pol. Science *MWF 2*
- 66-16 (s) Pol. Science *MWF 3*
- 66-17 Pol. Science *TTS 3*
- 66-19 (s) Pol. Science *TTS 2*
- 66-20 (s) Pol. Science *TTS 2*
- 92-1 Spanish *MWF 6*

* Hours to be arranged.

JACKSON COLLEGE FOR WOMEN

CAROLINE STODDER DAVIES, A.M., Dean

Standing Committees

PROMOTIONS: Dean Davies, *Chairman* ; Professors Fay, Metcalf, Neal and Schmidt.

STUDENT ORGANIZATIONS: Dean Davies, *Chairman* ; Professors Fay and Gilmer.

Faculty of Jackson College for Women

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D. PRESIDENT

CAROLINE S. DAVIES, A.M. DEAN

Professor of English

WILLIAM H. REED, A.M., RECORDING SECRETARY

Assistant Professor of Modern Languages

Professors

Arranged in the order of their appointment at Tufts College

CHARLES E. FAY, A.M., LITT.D.

Wade Professor of Modern Languages

FRANK W. DURKEE, A.M.

Chemistry

LEO R. LEWIS, A.M.

History and Theory of Music

FRANK G. WREN, A.M.

Walker Professor of Mathematics

FRED D. LAMBERT, PH.D.

Botany

WILLIAM K. DENISON, A.M.

Latin Language and Literature

HENRY C. METCALF, PH.D.

Jackson Professor of Political Science

EDWIN C. BOLLES, PH.D., D.D., LL.D.

Dickson Professor of English and American History

WILLIAM R. RANSOM, A.M.

Mathematics

ALFRED C. LANE, PH.D., SC.D.

Pearson Professor of Geology and Mineralogy

HENRY I. CUSHMAN, A.M., D.D.

Homiletics

HINCKLEY G. MITCHELL, D.D.

Hebrew and Old Testament Exegesis

ARTHUR I. ANDREWS, PH.D.

History and Public Law

KARL SCHMIDT, PH.D.

Philosophy and Education

LEE S. MCCOLLESTER, S.T.D.

Packard Professor of Christian Theology

HERBERT V. NEAL, PH.D.

Zoology

CLARENCE R. SKINNER, A.M.

Applied Christianity

CHARLES H. GRAY, PH.D.

English

HENRY H. MARVIN, PH.D.

Physics

Assistant Professors

Arranged in the order of their appointment at Tufts College

WILLIAM H. REED, A.M.

Modern Languages

ALBERT H. GILMER, A.M.

English

WILLIAM F. WYATT, PH.D.

Greek

Instructors

CROSBY F. BAKER, M.S.

Chemistry

RUTH A. BASS

Physical Training

JOSEPH CHANDLER, PH.D.

Organic Chemistry

JOHN L. C. KEEGEN, A.M.

English

NATHANIEL H. KNIGHT, B.S.

Physics

FRANK W. POTE, B.S.

Physics

AUGUSTE L. POULEUR, M.S.

Chemistry

HARRIS RICE, S.B.

Walker Special Instructor in Mathematics

LEPINE H. RICE, PH.B.

Mathematics

EDWIN A. SHAW, M.S.

Education

DONALD S. TUCKER, A.M.

Political Science

House Mistresses.

MRS. CAROLINE M. ROBINSON, A.B.

Head of Metcalf Hall

MISS RUTH A. BASS

Alpha House

MRS. DOROTHY CHAMBERLAIN

Richardson House

MISS KATHERINE DOLBEAR, A.M.

Gamma House

MISS RUTH TOUSEY, A.B.

Delta House

Jackson College for Women

Women are admitted to the courses of instruction given at Tufts College on the same terms as men. The Faculty of Jackson College for Women is the same as the Faculty of the School of Liberal Arts and in many cases, particularly in the sciences, the men and women attend classes in common and work in the same laboratories.

The buildings exclusively occupied by Jackson College are seven in number. Miner Hall contains the office of the Dean of Women, reception rooms and various classrooms. It is located near the College Library. Metcalf Hall is the principal dormitory, and contains the refectory; this building serves as a general headquarters for the women students, and its plan and furnishings are well adapted to this purpose. Alpha House, Richardson House, and Gamma House are smaller dormitories, each under the direct supervision of a resident house mistress. To secure more accommodation, Delta House has been opened on a co-operative basis. The students assume the running expenses and housekeeping duties. The Dean of Women resides in a cottage adjoining Metcalf Hall.

The women's gymnasium is a small building excellently equipped with apparatus. The main room is frequently used as an auditorium, as it contains a small stage well supplied with facilities for various dramatic activities.

The requirements for the degrees of A.B. or B.S. are the same as in Tufts College. All graduates of Jackson College receive the diploma of Tufts College.

EXPENSES

The tuition charges and incidental expenses are the same as in the School of Liberal Arts, with the exception of the charge for Physical Training, which is ten dollars. Room rent in the several dormitories may be tabulated as follows; the prices given are the rate per student per term.

Dormitories for Women

Double Rooms

	Metcalf	Richardson	Alpha	Total
\$20.00	1	.	.	1
22.50	2	.	.	2
25.00	.	.	1	1
27.50	.	.	1	1
30.00	2	7	3	12
37.50	4	.	.	4
42.50	4	.	.	4
Total Double Rooms	13	7	5	25

Single Rooms

\$20.00	1	.	1	2
25.00	1	.	.	1
30.00	.	4	.	4
37.50	4	.	.	4
Total Single Rooms	6	4	1	11
Total	19	11	6	36

Students are required to reside in the dormitories or with their families unless permitted by the Dean to make other arrangements.

All resident students, except those living in Delta House, board at Metcalf Hall.

The Bursar of the College receives all payments for board which is payable in advance.

For absences due to a student's illness and lasting more than one week, deduction will be made from the board bill.

REGISTRATION

The conditions controlling admission to Jackson College are in general the same as those controlling admission to any of the associated schools and are given in detail in the earlier part of this publication. Those intending to enroll as students should make their intentions known to the Dean as early as possible.

PHYSICAL TRAINING

MISS BASS

This subject is required during the Freshman and Sophomore years for healthful recreation, corrective and hygienic purposes. A medical examination, including physical measurements, is given at the beginning and end of the course. Class exercise includes gymnasium work, æsthetic dancing and basket ball drill. Weekly lectures on Hygiene and Physiology are given during the first term in the Freshman year. Superintended outdoor sports are required during the spring and autumn; these include basket ball, tennis, volley ball and field hockey.

SCHOLARSHIPS

In addition to the scholarships named below, with the amount of their endowments, a portion of the scholarship funds of Tufts college has been set apart for the students of Jackson College. Applications should be addressed to the Committee on Scholarships.

THE JOHN AND LUCY H. STOWE SCHOLARSHIPS. (5) \$10,000

Five scholarships for women students. Founded in 1894 and 1902 by Mrs. Lucy H. Stowe of Lawrence.

THE MARY AND LUTHER GILBERT SCHOLARSHIPS. (2) \$4,000

Founded in 1902 and 1904 by Mrs. Mary G. Knight, of Roxbury, for the benefit of women.

THE CHARLES A. AND CORNELIA B. SKINNER SCHOLARSHIP. \$1,000

Founded in 1907 by Rev. Charles A. Skinner, D.D., and Mrs. Cornelia B. Skinner, of Cambridge, Mass.

THE ALPHA OMICRON PI PRIZE SCHOLARSHIP.

An annual gift of \$50. by the Alumnæ of the Tufts Chapter of Alpha Omicron Pi, and given to that woman in the senior class who shall have made the best record in the prescribed work of the A. B. Course.

THE ALPHA XI DELTA PRIZE SCHOLARSHIP.

An annual gift of \$50. by the Lambda Chapter and Alumnæ of Alpha Xi Delta and given annually to that senior who, at the end of the Junior year, shall have maintained the highest excellence in a course of study broadly and wisely chosen.

THE CHI OMEGA PRIZE SCHOLARSHIP.

An annual gift of \$50. by the Alumnæ of the Chi Alpha Chapter of Tufts College, to be given annually to a student of Jackson College who at the end of her Junior year has attained commendable scholarship in Economics and Sociology and has shown a keen interest in Social Service. The purpose of this scholarship is to encourage practical work during her Senior year.

THE BOSTON ALUMNÆ CHAPTER OF SIGMA KAPPA SCHOLARSHIP.

An annual gift of \$50. by the Boston Alumnæ Chapter of Sigma Kappa, representing Boston University and Jackson College, available at Boston University on the even year, beginning 1914, and at Jackson College on the odd year, to be given to a sorority or non-sorority girl, worthy in character and scholarship, who is struggling to meet the expenses of a college education.

LOANS AND AIDS

The Woman's Universalist Missionary Society of Massachusetts maintains a fund for the use of students of Jackson College. The scholarships, which have a value of \$100, are restricted to Universalists. It is understood that the beneficiaries in due time will return an equivalent amount to the Fund.

The Hettie Lang Shuman Memorial Fund was founded in 1905 by Mr. A. Shuman, who presented one thousand dollars to the College, in memory of his wife. The interest of this fund is annually expended in aiding deserving women students.

ENGINEERING SCHOOL

GARDNER CHACE ANTHONY, A.M., Sc.D., Dean

Standing Committees

CURRICULUM: Dean Anthony, *Chairman*; Professors Hooper, Durkee, Sanborn, Seavey, Chase, and Rockwell.

PROMOTIONS: Dean Anthony, *Chairman*; Professors Ransom, Rockwell, and Assistant Professors Carroll and Conner.

Faculty of the Engineering School

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D., PRESIDENT

GARDNER C. ANTHONY, A.M., SC.D., DEAN

*Professor of Technical Drawing. Acting Head of Department of
Mechanical Engineering*

WILLIAM H. REED, A.M., SECRETARY

Professors

Arranged in the order of their appointment at Tufts College.

WILLIAM L. HOOPER, A.M., PH.D., LL.D.

Electrical Engineering

FRANK W. DURKEE, A.M.

Chemistry

CHARLES H. CHASE, S.B.

Steam Engineering

HENRY C. METCALF, PH.D.

Political Science

WILLIAM R. RANSOM, A.M.

Mathematics

FRANK B. SANBORN, C.E., M.S.

Civil Engineering

EDWARD H. ROCKWELL, S.B.

Structural Engineering

ALFRED C. LANE, A.M., PH.D., SC.D.

Geology and Mineralogy

HENRY H. MARVIN, B.S., PH.D.

Physics

FRANK E. SEAVEY, A.M.

English

Assistant Professors

Arranged in the order of their appointment at Tufts College.

*EDWIN B. ROLLINS, B.S.

Electrical Engineering

* Absent on leave first semester.

MELVILLE S. MUNRO, B.S.

Electrical Engineering

RICHARD C. SMITH, B.S.

Structural Engineering

SAMUEL L. CONNER, M.S.

Railroad Engineering

HOWARD H. CARROLL, S.B.

Technical Drawing.

VANNEVAR BUSH, M.S., ENG.D.

Electrical Engineering

Instructors

CONRAD A. ADAMS, B.S.

Mechanic Arts

CROSBY F. BAKER, M.S.

Chemistry

HARRY P. BURDEN, B.S.

Civil Engineering

JOSEPH CHANDLER, PH.D.

Organic Chemistry

SHIRLEY W. HARVEY, A.B.

English

NATHANIEL H. KNIGHT, B.S.

Physics

ARTHUR W. LEIGHTON

Drawing

EDGAR MACNAUGHTON, M.E.

Mechanical Engineering

ETHEL MARR McCALLUM

English

CHARLES F. NEVENS, A.M.

Modern Languages

FRANK W. POTE, B.S.

Physics

AUGUSTE L. POULEUR, M.S.

Chemistry

HARRIS RICE, S.B.

Walker Special Instructor in Mathematics

LEPINE H. RICE, PH.B.

Mathematics

DONALD S. TUCKER, A.M.

Political Science

Courses of Instruction

The School offers courses leading to the degree of Bachelor of Science in CIVIL ENGINEERING, STRUCTURAL ENGINEERING, MECHANICAL ENGINEERING, ELECTRICAL ENGINEERING, and CHEMICAL ENGINEERING.

During the first two years the course of study and elective privileges are the same for all departments. The importance of developing the power to write clear and concise English is emphasized by correlating this subject with the work of other departments, thus making it a fundamental subject for technical training. The subjects of Mathematics, Physics, Chemistry, Graphics and of Mechanic Arts, being common to every field of engineering, are required of all students. Introductory engineering courses in Heat, Electricity and Hydraulics are also given to all during the Sophomore year.

The more technical work of the Junior and Senior years is tabulated in the following pages under the headings of the respective departments.

On the pages immediately following the Outline of Courses will be found an index of the subjects, which also indicates the system of numbering.

Following this index is the detailed description of the subjects in numerical order.

REQUIREMENTS FOR THE DEGREE

One hundred and forty term hours are required for graduation, this being the equivalent of about fifty-two hours of study, recitation, and laboratory hours per week. A grade of C or higher must be obtained in at least seventy term hours.

RELATION OF THE SEVERAL DEPARTMENTS

Freshmen and Sophomore	Junior	Senior
General course common to all	Civil and Structural	{ Civil Structural
	Mechanical and Electrical	{ Mechanical Electrical
	Chemical	Chemical

OUTLINE OF COURSES

An index of the subjects, and key to the system of numbering may be found on the pages immediately following the Outline of Courses. Following the index are the details of the subjects in their numerical order.

FRESHMAN YEAR

[Alike for all courses.]

FIRST TERM		SECOND TERM	
	Term hour		Term hour
11-1 English	3	11-2 English	3
13-2 †French or }	3	13-2 †French or }	3
15-2 †German }	3	15-2 †German }	3
21-4 †Graphics or }	3	21-5 Graphics	3
21-6 †Graphics }	2	25-2 †Mechanic Arts }	2
25-2 †Mechanic Arts }	2	25-3 †Mechanic Arts }	2
25-3 †Mechanic Arts }	2	29-3 Mathematics	3
29-20 Mathematics	5	31-1 Physics or }	3
41-4 Surveying	2	31-31 *Physics }	4
88 Physical Training	½	31-8 Physics Laboratory	1½
Total	17½ or 18½	88 Physical Training	½
		Total	17 or 20

SOPHOMORE YEAR

[Alike for all courses.]

FIRST TERM		SECOND TERM	
	Term hour		Term hour
21-13 Mechanism	3	21-8 Graphics	3
29-4 Mathematics	3	35-1 Chemistry or }	3
31-2 Physics or }	3	35-20 *Chemistry }	4
31-32 *Physics }	4	41-40 Hydraulic Engineering	3
31-9 Physics Laboratory	1½	45-21 Mechanics	3
35-1 Chemistry or }	3	61-20 Electrical Engineering	3
35-20 *Chemistry }	4	88 Physical Training	½
51-1 Heat Engineering	3	Total	15½ or 16½
88 Physical Training	½		
Total	17 or 19		

Electives

English, French or German.

Electives

English, French or German.

†As the courses to be pursued in Modern Language, Graphics and Mechanic Arts are dependent on the preparation of each student, definite instruction for the selection thereof is given at the time of registration.

*Required of those not having one unit entrance credit in the subject.

JUNIOR YEAR

CIVIL AND STRUCTURAL ENGINEERING

FIRST TERM

Term hour

35-2	Qualitative Analysis	2
41-12	Railroad Surveying	3
41-46	Water Supplies	3
45-1	Applied Mechanics	3
45-12	Applied Mechanics Laboratory	1
81-1	Economics	3
	Total	15

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3
54-	Geology	
64-1	Mineralogy and Lithology	3

SECOND TERM

Term hour

29-5	Mathematics	3
41-13	Railroad Engineering	3
41-21	Highways	2
41-43	Hydraulic Measurements	2
45-2	Applied Mechanics	3
47-3	Structural Design	3
	Total	16

Electives

11-	English	
17-1	Spanish	3
41-31	Geodesy	2
41-51	Fire Prevention	2
-	Geology	

MECHANICAL AND ELECTRICAL ENGINEERING

FIRST TERM

Term hour

35-2	Qualitative Analysis	2
45-1	Applied Mechanics	3
45-12	Applied Mechanics Laboratory	1
51-24	Mechanical Engineering Lab.	3
61-3	Dynamo-Electric Machinery	3
81-1	Economics	3
	Total	15

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3

SECOND TERM

Term hour

25-8	Mechanic Arts	3
29-5	Mathematics	3
45-4	Applied Mechanics	3
51-3	Heat Engineering	3
61-5	Alt. Current Machinery	3
61-8	Electrical Laboratory	3
	Total	18

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3

CHEMICAL ENGINEERING

FIRST TERM

Term hour

35-2	Qualitative Analysis	2
35-4	Quantitative Analysis	3
35-10	Organic Chemistry	4
45-1	Applied Mechanics	3
45-12	Applied Mechanics Laboratory	1
81-1	Economics	3
	Total	16

Electives

11-	English	
17-1	Spanish	3
24-2	Electricity and Magnetism	3
64-1	Mineralogy and Lithology	3
	German 15 or 22	

SECOND TERM

Term hour

29-5	Mathematics	3
35-3	Qualitative Analysis	2
35-4	Quantitative Analysis	3
35-10	Organic Chemistry	4
45-2	Applied Mechanics	3
	Total	15

Electives

11-	English	
17-1	Spanish	3
	German 15 or 22	3

SENIOR YEAR

CIVIL ENGINEERING

FIRST TERM			SECOND TERM		
		Term hour			Term hour
41-14	Railroad Engineering	3	41-48	Sewerage	3
*41-46	Water Supplies	3	41-63	Contracts	3
41-95	Civil Engineering Topics	2	41-99	Thesis	3-5
45-3	Structural Mechanics	3			
47-1	Roofs and Bridges	3			
71-2	Military Engineering	3			
	Total	17		Total	9-11
<i>Electives</i>			<i>Electives</i>		
11-	English		11-	English	
14-	Mathematics		14-	Mathematics	
17-1	Spanish	3	17-1	Spanish	3
35-4	Quantitative Analysis	3	35-4	Quantitative Analysis	3
41-47	Water Power Engineering	3	41-17	Railroad Economics	3
47-7	Bridge Design	3	47-2	Theory of Structures	3
64-	Mineralogy		47-8	Structural Design	2
66-	Economics		54-	Geology	
			66-	Economics	

STRUCTURAL ENGINEERING

FIRST TERM			SECOND TERM		
		Term hour			Term hour
*41-46	Water Supplies	3	47-2	Theory of Structures	3
45-3	Structural Mechanics	3	47-8	Structural Design	2
47-1	Roofs and Bridges	3	47-99	Thesis	3-5
47-7	Bridge Design	3			
47-95	Structural Topics and Reports	2			
71-2	Military Engineering	3			
	Total	17		Total	8-10
<i>Electives</i>			<i>Electives</i>		
11-	English		11-	English	
14-	Mathematics		14-	Mathematics	
17-1	Spanish	3	17-1	Spanish	3
41-14	Railroad Engineering	3	41-17	Railroad Economics	3
41-47	Water Power Engineering	3		Geodesy	2
64-	Mineralogy		41-48	Sewerage	3
66-	Economics		41-51	Fire Prevention	2
			41-63	Contracts	3
			54-	Geology	
			66-	Economics	

* Omit from Senior year after 1917-18

SENIOR YEAR

MECHANICAL ENGINEERING

FIRST TERM

Term hour

51-7	Engine Design	3
51-15	Dynamics of Machinery	3
51-18	Machine Design	3
51-26	Mechanical Engineering Lab.	3
71-2	Military Engineering	3
Total		15

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3
41-47	Water Power Engineering	3
61-12	Dynamo Laboratory	3
61-14	Electricity	3
61-15	Electrical Engineering	3
61-23	Dynamo Design	3
66-	Economics	
81-5	Engineering Economics	3

SECOND TERM

Term hour

51-8	Power Plant Design	3
51-18	Machine Design	3
51-28	Mechanical Engineering Lab.	3
51-99	Thesis	3
Total		12

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3
41-63	Contracts	3
51-95	Mech. Engineering Topics	2
61-14	Electricity	3
61-16	Electrical Engineering	3
66-	Economics	

ELECTRICAL ENGINEERING

FIRST TERM

Term hour

61-12	Dynamo Laboratory	3
61-14	Electricity	3
61-15	Electrical Engineering	3
61-23	Dynamo Design	3
71-2	Military Engineering	3
Total		15

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3
41-47	Water Power Engineering	3
51-7	Engine Design	3
51-15	Dynamics of Machinery	3
51-18	Machine Design	3
51-26	Mechanical Engineering Lab.	3
61-17	Telephone and Telegraph	3
66-	Economics	
81-5	Engineering Economics	

SECOND TERM

Term hour

51-14	Electricity	3
61-16	Electrical Engineering	3
61-99	Thesis	3-5
Total		9-11

Electives

11-	English	
14-	Mathematics	
17-1	Spanish	3
41-63	Contracts	3
51-8	Power Plant Design	3
51-18	Machine Design	3
51-28	Mechanical Engineering Lab.	3
61-96	Electrical Topics	2
66-	Economics	

CHEMICAL ENGINEERING

FIRST TERM

Term hour

35-5	Quantitative Analysis	3
35-9	Gas Analysis	1
35-11	Theoretical Chemistry	3
35-17	Applied Chemistry	3
61-3	Dynamo-Electric Machinery	3
71-2	Military Engineering	3
Total		16

Electives

11-	English	
14-	Mathematics	
	German 15 or 22	3
17-1	Spanish	3
41-46	Water Supplies	3
54-	Geology	
64-	Mineralogy	
66-	Economics	
81-5	Engineering Economics	3

SECOND TERM

Term hour

35-5	Quantitative Analysis	3
35-7	Fire Assay	2
35-8	Metallurgy	2
35-11	Theoretical Chemistry	3
35-17	Applied Chemistry	3
35-99	Thesis	3-5
Total		16-18

Electives

11-	English	
14-	Mathematics	
	German 15 or 22	3
17-1	Spanish	3
41-48	Sewerage	3
54-	Geology	3
61-8	Electrical Laboratory	3
66-	Economics	

Index to Subjects

No.	Term Hours	SUBJECT	No.	Term Hours	SUBJECT
11 ENGLISH					
11-1	3	English (First Term)	35-17	*6	Applied Chemistry
11-2	3	English (Second Term)	35-20	||8	Chemistry
11-4	2	English Composition	35-99	3-5	Chemical Engineering Thesis
11-5	3	General English Literature	41 CIVIL ENGINEERING		
11-6	2	English Literature, 19th Century	41-4	2	Surveying
11-7	2	Advanced English Literature	41-12	3	Railroad Surveying
11-8	2	Technical Exposition	41-13	3	Railroad Engineering
11-9	2	Technical Theses	41-14	3	Railroad Engineering
11-13	3	Argumentation	41-17	3	Railroad Engineering Economics
13 FRENCH					
13-1	*6	French	41-21	2	Highways
13-2	*6	French	41-31	2	Geodesy
13-3	3	French	41-40	3	Hydraulic Engineering
15 GERMAN					
15-1	*6	German	41-41	2	Hydraulics
15-2	*6	German	41-43	2	Hydraulic Measurements
15-3	3	German	41-46	3	Water Supplies
17 SPANISH					
17-1	*6	Spanish	41-47	3	Water Power Engineering
21 DRAWING					
21-4	3	Graphics	41-48	3	Sewerage
21-5	3	Graphics	41-51	2	Fire Prevention
21-6	2	Graphics	41-63	3	Contracts
21-8	3	Graphics	41-95	2	Civil Engineering Topics
21-13	3	Mechanism	41-99	3-5	Civil Engineering Thesis
25 MECHANIC ARTS					
25-2	2	Wood Working	45 APPLIED MECHANICS		
25-3	2	Pattern Making	45-1	3	Applied Mechanics
25-8	3	Metal Work	45-2	3	Applied Mechanics
29 MATHEMATICS					
29-3	3	Freshman Calculus	45-3	3	Structural Mechanics
29-4	3	Sophomore Calculus	45-4	3	Applied Mechanics
29-5	3	Junior Calculus	45-12	1	Applied Mechanics Laboratory
29-20	5	Analysis and Computation	45-21	3	Mechanics
31 PHYSICS					
31-1	3	Physics	47 STRUCTURAL ENGINEERING		
31-2	3	Physics	47-1	3	Roofs and Bridges
31-8	1½	Physics Laboratory	47-2	3	Theory of Structures
31-9	1½	Physics Laboratory	47-3	3	Structural Design
31-31	4	Physics	47-7	3	Bridge Design
31-32	4	Physics	47-8	2	Structural Design
35 CHEMISTRY					
35-1	*6	General Inorganic Chemistry	47-95	2	Structural Topics and Reports
35-2	2	Qualitative Analysis	47-99	3-5	Structural Engineering Thesis
35-3	2	Qualitative Analysis, Advanced	51 MECHANICAL ENGINEERING		
35-4	*6	Quantitative Analysis	51-1	3	Heat Engineering
35-5	*6	Quantitative Analysis, Technical	51-3	3	Heat Engineering
35-7	2	Fire Assay	51-7	3	Engine Design
35-8	2	Metallurgy of Iron and Steel	51-8	3	Power Plant Design
35-9	1	Technical Gas Analysis	51-15	3	Dynamics of Machinery
35-10	||8	Organic Chemistry	51-18	*6	Machine Design
35-11	*6	Theoretical Chemistry	51-24	3	Mechanical Laboratory
			51-26	3	Mechanical Engineering Labora- tory
			51-28	3	Mechanical Engineering Labora- tory
			51-95	2	Mechanical Engineering Topics
			51-99	3	Mechanical Engineering Thesis

*Two terms; three term hours each.

†Two terms; first term, one term hour; second term, two term hours.

||Two terms; four term hours each.

§Two terms; one and one-half term hours each.

**Two terms; two term hours each.

***Two terms; one term hour each.

54 GEOLOGY

54-1	3	Physical Geology and Geography
54-5	3	Physical Geology
54-21	1	Physical Geography and Meteorology
54-22	2	Physical Geology
54-23	1	Economic Geology
54-24	2	Historical Geology

61 ELECTRICAL ENGINEERING

61-3	3	Dynamo-Electric Machinery
61-5	3	Alternating Current Machinery
61-8	3	Electrical Laboratory
61-12	3	Dynamo Laboratory
61-14	*6	Electricity
61-15	3	Electrical Engineering
61-16	3	Electrical Engineering

*Two terms; three term hours each.

61-17	3	Telephone and Telegraph
61-20	3	Electrical Engineering
61-23	3	Dynamo Design
61-27	3	Radio Engineering
61-96	2	Electrical Topics
61-99	3-5	Electrical Engineering Thesis

64 MINERALOGY

64-1	3	Mineralogy and Lithology
64-2	3	Crystallography and Advanced Mineralogy

71 GENERAL ENGINEERING

71-2	3	Military Engineering
------	---	----------------------

81 POLITICAL ECONOMY

81-1	3	Elements of Economics
81-5	3	Engineering Economics

Departments of Instruction

ENGLISH and MODERN LANGUAGES

11-1 English. A study of the elemental forms of literary and scientific writing: description, exposition, directions, criticism, argument, and narration, with the ultimate aim of helping the student to think for himself. Reading of illustrative literature. *One lecture and three recitations a week.*

First term. Three term hours.

PROFESSOR SEAVEY, MR. HARVEY, and MISS MCCALLUM

11-2 English. A study of actual problems in expression. Reading in general science and literature under the guidance of weekly lectures. *Three recitations a week. Preparation, 11-1.*

Second term. Three term hours.

PROFESSOR SEAVEY, MR. HARVEY, and MISS MCCALLUM

[11-4 English. An advanced subject in general composition, including the writing of daily and fortnightly themes. *Two periods a week. Preparation, 11-2.*

Second term. Two term hours. PROFESSOR SEAVEY and MR. HARVEY]

11-5 English. A brief survey of English literature and history, from the beginnings to about 1750, aiming to broaden the student's appreciation of what he may get from books, and to suggest ways in which the past throws light on the problems of the present. *Three periods a week. Preparation, 11-2.*

First term. Three term hours.

MR. HARVEY and MISS MCCALLUM

11-6 English. A study of some of the most important literary and scientific developments of the nineteenth century. *Three periods a week. Preparation, 11-2.*

Second term. Two term hours.

PROFESSOR SEAVEY, MR. HARVEY, and MISS MCCALLUM

[11-7 English. Advanced English literature. A study of some author, period, or type. The definite work to be carried on will be outlined by the instructor in charge each June for the following term. *Three periods a week: two recitations and one thirty-minute conference. Preparation, 11-6.*

First term. Two term hours.]

11-8 English. A detailed study of the most important problems of technical writing. *Two periods a week. Preparation, 11-2.*

Second term. Two term hours.

PROFESSOR SEAVEY

11-9 English. An advanced subject in technical composition. No class meetings; each student writes papers from ten to fifty pages in length under the individual direction of the instructor. The subjects are taken, as far as possible, from technical work previously done by the student outside of college, or from special research. *One thirty-minute conference a week. Preparation, 11-8.*

First term; repeated in second term. Two term hours.

PROFESSOR SEAVEY

11-13 English. Argumentative composition adapted to meet the special needs of engineers. *Three periods a week. Preparation, 11-2.*

First term. Three term hours.

PROFESSOR SEAVEY

13-1 French. Elementary course. The essentials of grammar, with composition. Reading of short works of modern authors in prose and verse. Open to Freshmen whose entrance language is Latin, Greek, or Advanced German. *Three recitations a week.*

First and second terms. Six term hours.

MR. NEVENS

13-2 French. Review of grammatical principles especially with reference to difficulties encountered in translation. Outside reading of modern French novels. Class room work consisting of scientific reading from *L'annee Scientific et Industrielle* for 1913. *Three recitations a week. Preparation, elementary credit in French, or 13-1.*

First and second terms. Six term hours.

MR. NEVENS

15-1. German. Elementary course. The essentials of grammar with composition. Reading of short works by modern authors. Grammar: Vos' Essentials of German or Harris' German Lessons. Open to Freshmen whose entrance Language is Latin, Greek or Advanced French. *Three recitations a week.*

First and second terms. Six term hours.

MR. NEVENS

15-2 German. Review of grammatical principles, especially with reference to difficulties encountered in translation. Outside reading of modern German texts. Class room work consisting of reading from German scientific works. *Three recitations a week. Preparation, elementary entrance credit in German, or 15-1.*

First and second term. Six term hours.

MR. NEVENS

15-3 German. The rapid reading of modern technical prose in contemporary authors. Outside reading of modern novels. Elective for Sophomores, Juniors and Seniors who have passed 15-2 or its equivalent with at least a grade of B. *Three recitations a week.*

First term. Three term hours.

MR. NEVENS

15-4. German. Continuation of 15-3. *Three recitations a week.*

Second term. Three term hours.

MR. NEVENS

[17-1 **Spanish.** Elementary course. The essentials of grammar; reading of modern prose; practice in writing Spanish. Open to those who have received a grade of C or higher in French 13-2, or German 15-2. All others wishing to elect the subject should consult the instructor. *Three recitations a week.*

First and second terms. Six term hours.

MR. NEVENS]

21 DRAWING

21-4 Graphics. Required of those who have had little or no previous instruction in technical drawing. The course consists of exercises in the proper use and care of drafting tools; a thorough study of the principles of orthographic projection with applied problems relating to engineering drawing; isometric and perspective projections. Special attention is given to lettering, tracing, sketching and dimensioning. *Three periods a week; two hours each.*

First term. Three term hours.

ASSISTANT PROFESSOR CARROLL and MR. LEIGHTON

21-5 Graphics. A study of the principles of descriptive geometry and its application to engineering by the solution of problems in which theory and practice are closely correlated. *Three periods a week; two hours each. Preparation, 21-4 or 21-6.*

Second term. Three term hours.

ASSISTANT PROFESSOR CARROLL and MR. LEIGHTON

21-6 Graphics. Required of those who have had entrance credit or two or more years of previous instruction in technical drawing. The course consists of applied problems in orthographic projection; isometric and perspective projection; sketching and the reading and translation of drawings. Special attention is given to lettering, tracing and dimensioning. *Two period a week; two hours each with preparation.*

First term. Two term hours.

ASSISTANT PROFESSOR CARROLL and MR. LEIGHTON

21-8 Graphics. A study of the technique of graphic expression and its application in giving such complete and accurate information as is necessary for the practicing engineer. Emphasis is placed on the reading, as well as the making, of such drawings as are used in good practice in order to give familiarity with those methods and idioms of graphic expression which are accepted as standard by most draftsmen. Drafting practice is obtained by making detailed and assembly drawings from such data as will eliminate the possibility of copying. *Three periods a week; two hours each. Preparation, 21-4 or 21-6.*

Second term. Three term hours.

ASSISTANT PROFESSOR CARROLL and MR. LEIGHTON

21-13 Mechanism. An introductory course, conducted mainly by graphical methods, and dealing with the fundamental laws governing the velocity ratio and paths of mechanical movements and their application to velocity diagrams, simple types of gearing, and other modes of transmission. *Three periods a week; two hours each. Preparation, 21-4 or 21-6. First term. Three term hours.*

ASSISTANT PROFESSOR CARROLL and MR. LEIGHTON

25 MECHANIC ARTS

25-2. Woodworking. The course is intended to give a practical knowledge of woodworking hand tools and woodworking machines. Instruction is given in laying out work, sawing, planing, chiseling, boring, fitting, band and circular sawing, and is followed by lathe work, which includes center, chuck and face plate turning. Consideration is given to various commercial processes and manufacturing details. The laboratory work is based upon lectures, notes and class demonstrations. Frequent tests are given to insure a thorough knowledge of the principles involved. *Two periods per week; three hours each.*

First or second terms. Two term hours.

MR. ADAMS

25-3 Pattern Making. This is a laboratory course which comprises a study of the methods and principles of foundry practice leading to a knowledge of the requirements of pattern making. The course in pattern making consists of the layout and construction of split patterns, core boxes and built up work. The requirements of the moulder are constantly kept in mind and the several methods of construction possible in each case are discussed. Modern foundry and pattern shop methods are studied. The work in the shop is based on lectures, assignments from the text and class demonstrations, with frequent tests concerning the work at hand. *Two periods per week; three hours each.*

First or second term. Two term hours. Preparation 25-2 or its equivalent.

MR. ADAMS

25-8 Metal Work. This course is introduced by work at the forge in bending, drawing, upsetting, welding, tool-dressing, etc., followed by work at the vise in chipping, filing, and fitting. Lathe work, including straight and taper turning, chucking, boring, reaming, and thread cutting; also drilling, planing, shaper and milling-machine work. *Textbook; Three periods per week; two of three and one-half hours each and one of one hour.*

Second term. Three term hours.

MR. ADAMS

29 MATHEMATICS

29-3 Freshman Calculus. Fundamental principles. Algebraic differentials and integrals. Differential and integral rate problems. Maxima and Minima. Transcendental functions. Areas. *Three periods a week; one hour each.*

Second term. Three term hours. Preparation, 29-20.

PROFESSOR RANSOM, MR. H. RICE, and MR. L. H. RICE

29-4 Sophomore Calculus. Review of differentiation and integration. Applications. Summation problems. Use of tables. Centroids, moments and averages. *Three hours a week. Preparation, 29-3.*

First term. Three term hours.

PROFESSOR RANSOM, MR. H. RICE, and MR. L. H. RICE

29-5 Junior Mathematics. Approximate integration. Multiple integrals. Taylor's Theorem, and errors. Fourier's Series. Elements of Differential Equations. *Three hours a week. Preparation, 29-4.*

Second term. Three term hours.

PROFESSOR RANSOM

29-20 Analysis and Computation. Rounded numbers, trigonometric functions, 4- and 7-place logarithms, slide rule. Plane and right spherical triangles. Graphical representation of functions, typical variables. Rectangular coordinates, straight lines, conic sections and standard curves. *Five periods a week.*

First term. PROFESSOR RANSOM, MR. H. RICE, and MR. L. H. RICE

31 PHYSICS

31-1 Physics. The subjects considered are composition of forces static and kinetic equilibrium, the laws of motion, the energy principle, the simple types of motion including uniform and uniformly accelerated motion, rotation about a fixed axis, simple harmonic motion, wave motion, and resonance; in heat, thermometry, expansion, calorimetry, change of state, transfer, sources, uses, and the laws of thermodynamics. *Lectures and recitations. Preparation, 29-20 or entrance Physics.*

Second term. Three term hours.

PROFESSOR MARVIN, MR. POTE, and MR. KNIGHT

31-2 Physics. The subject of heat is carried over from the previous semester. Following this, the subjects considered are: Optics, sources of light, photometry, velocity, reflection, refraction, optical instruments, dispersion, color, interference, diffraction, polarization; in electricity, electrostatics, the condenser, the electric current, Ohm's law and applications,

power, magnetism, the magnetic circuit, electromagnetic induction, the principles of direct and alternating current machines and instruments.

One lecture and two recitations per week. Preparation, 31-1 or 31-31.

First term. Three term hours.

ASSISTANT PROFESSOR MARVIN, MR. POTE, and MR. KNIGHT

31-8 Physics Laboratory. The first experiments relate to the use of the usual instruments for precise measurement and to the mechanics of solids, liquids and gases. These are followed by experiments in heat, including thermometry, vapor pressure, expansion, calorimetry, and mechanical equivalent. The use of graphical methods of interpreting data is taught in connection with these experiments. *One three hour period, with one and one-half hours preparation weekly. Preparation, 31-1, or 31-31, simultaneously.*

Second term. One and one-half term hours.

PROFESSOR MARVIN, MR. POTE, and MR. KNIGHT

31-9 Physics Laboratory. The experiments in heat, begun in 31-8, are completed. These are followed by experiments in optics and electricity. The experiments in optics include refraction, elementary spectrum analysis, and optical instruments. The experiments in electricity include measurement of resistance, current, electromotive force, and capacity. *One period of three hours, with one and one-half hours preparation, weekly. Preparation, 31-2, or 31-32, simultaneously.*

First term. One and one-half term hours.

PROFESSOR MARVIN, MR. POTE and MR. KNIGHT

31-31 Physics. Subjects the same as 31-1, but with one additional recitation per week. Required, instead of 31-1, for students who have not presented Physics for admission. *Lectures and recitations. Preparation, 29-20.*

Second Term. Four term hours.

PROFESSOR MARVIN, MR. POTE and MR. KNIGHT

31-32 Physics. Subjects the same as 31-2, but with one additional recitation per week. Required, instead of 31-2, for students who have not presented Physics for admission. *Lectures and recitations. Preparation, 31-31.*

First term. Four term hours.

PROFESSOR MARVIN, MR. POTE and MR. KNIGHT

35 CHEMISTRY

35-1 General Inorganic Chemistry. An introductory course in theoretical and descriptive inorganic chemistry, with a thorough consideration of the simplest carbon compounds and principal technical processes. *Three*

*periods a week, two lectures, one three hour laboratory period with conferences.
First and second terms. Six term hours.*

PROFESSOR DURKEE, MR. BAKER, DR. CHANDLER and Mr. POULEUR

35-2 Qualitative Analysis for the detection of the metals, a course which includes the experimental development of schemes for the division of the metals into groups, the separation and detection of the metals in each group,—a study of all the chemical changes and analytical details, together with the correct analysis of six known solutions and thirteen unknown. *Two periods a week ; three hours each ; laboratory work and conference. Six lectures.*

First term. Two term hours.

PROFESSOR DURKEE, MR. BAKER, and ASSISTANTS

35-3 Qualitative Analysis, Advanced, dealing with methods to effect solution of solids, the detection of mineral and common organic acids, the complete analysis of inorganic solids, including mixtures of salts, minerals, alloys, and slags. Three known and thirteen unknown are required, and thorough study of the chemical changes and conditions involved in the analyses. *Two periods a week ; three hours each ; laboratory work and conference.*

Second term. Two term hours.

MR. BAKER and ASSISTANT

35-4 Quantitative Analysis. Theory and practice of gravimetric and volumetric analysis, including the determination of chlorine by the ordinary and Gooch crucible methods, iron and sulphur in ferrous ammonium sulphate, silica in a silicate, phosphorus in a phosphate, complete analysis of dolomite, and brass, preparation of strictly half-normal sodium hydroxide and hydrochloric acid solutions, the volumetric analyses of soda ash and oxalic acid, the analysis of iron ore by the dichromate and permanganate methods, determination of chromium in chromite, of antimony by the iodine method, and silver by the sulphocyanate method. *Three periods a week ; three hours each ; laboratory work and conference.*

First and second terms. Six term hours.

PROFESSOR DURKEE and MR. BAKER

35-5 Quantitative Analysis. Technical. Work varied somewhat to meet the needs of individual students. Course ordinarily comprises proximate analysis of coal, nitrogen in coal, by Kjeldahl's method, complete analysis of boiler scale, mineral and sanitary analysis of water, determination of copper in ores by iodine and cyanide methods, of zinc by ferro-cyanide method, complete analysis of Babbitt metal, determination of lead in ores and manganese, sulphur, phosphorus, silicon, and carbon in iron and steel. *Three periods a week ; three hours each ; laboratory work and conference.*

First and second terms. Six term hours.

PROFESSOR DURKEE

35-7 Fire Assay. A course which deals with the theory and practice of sampling and assaying gold and silver ores. *Two periods a week; three hours each; laboratory work and conference.*

Second term. Two term hours.

PROFESSOR DURKEE, MR. BAKER, and MR. POULEUR

35-8 Metallurgy of Iron and Steel. Considered largely from the chemical side, and includes the study of ores, fluxes, fuels, furnaces, and the other mechanical devices used in the commercial production of pig iron, wrought iron, and steel, together with the solution theory of iron and steel, heat treatment of steel, and production of malleable cast iron. *Two periods a week; one hour each; lectures and recitations.*

Second term. Two term hours.

MR. BAKER

35-9 Technical Gas Analysis, by the Orsat, Elliot, and Hempel systems. *One period a week, of three hours.*

First term. One term hour.

MR. POULEUR

35-10 Organic Chemistry. This course consists of lectures, recitations, and laboratory work. It is intended to familiarize the student with the typical compounds of carbon and their more important derivatives. The work in the laboratory includes the preparation of certain of the more important substances referred to in the lectures, and the identification of certain classes of compounds. *Four periods a week; three lectures; one three-hour laboratory period.*

First and second terms. Eight term hours.

DR. CHANDLER and ASSISTANT

35-11 Theoretical Chemistry. The subject matter of this course consists largely of the principles usually included under the head of Physical Chemistry. The work in the laboratory consists of physical chemical measurements and experiments of a physical chemical nature. *Three periods a week, two lectures, one three-hour laboratory period.*

First and second terms. Six term hours.

DR. CHANDLER

35-17 Applied Chemistry. A course dealing with the most important applications of inorganic and organic chemistry to manufacturing purposes, such as the production of sulphuric acid, soda, illuminating gas, and sugar. *Three periods a week. Two lectures or recitations, and one three-hour laboratory period.*

First and second terms. Six term hours.

PROFESSOR DURKEE

35-20 Chemistry. Subjects the same as 35-1, but with one additional recitation per week. *Four periods a week, two lectures, one recitation, one three-hour laboratory period with conferences.*

First and second terms. Eight term hours.

PROFESSOR DURKEE, MR. BAKER, DR. CHANDLER and MR. POULEUR

35-99 Chemical Engineering Thesis. The development of a Chemical Engineering problem by extended personal research. The head of the department has authority to substitute another engineering subject for the thesis.

Second term. Three to five term hours.

PROFESSOR DURKEE, DR. CHANDLER, and MR. BAKER

41 CIVIL ENGINEERING

41-4 Surveying. The elements of surveying; practice in the field associated with note-taking; mathematics applied to computations of dimensions, areas, and volumes; graphics by plotting, and plan making. Textbook: Tracy's Plane Surveying. *Two periods a week; three hours each.*

First term. Two term hours.

PROFESSOR SANBORN, ASSISTANT PROFESSOR CONNER, and MR. BURDEN

41-12 Railroad Surveying. The greater part of the problems selected for this course are based on information secured by the student while engaged in the reconnoissance and preliminary survey of a short line of proposed railroad near the College. These problems consist of the more important ones that daily arise in the practice of the railroad engineer, and they comprise the determination and location of all simple and compound curves that might be required for the final location of any line; the accurate plotting of the survey notes by means of a system of co-ordinates; a preliminary estimate of the materials of construction required, and the completion of all drawings. Text books: Railroad Curves and Earthwork by Allen. *Three periods a week; three hours each. Preparation, 41-4.*

First term. Three term hours.

ASSISTANT PROFESSOR CONNER

41-13 Railroad Engineering. A thorough analysis, both theoretical and practical, of the transition spiral; the study of earthwork computations, use of the mass diagram, determining cost of overhaul, use and computation of the vertical curve, proper methods of attack in steam-shovel work, the design and estimate of trestle construction, of culverts and waterways, and a general treatment of methods employed in locating all structures of standard design that support the roadbed. A brief study is made of the analysis of labor costs, and of the general principles underlying the scientific management of materials and men. Textbooks: The Railway Transition Spiral, by Talbot; American Civil Engineering Pocketbook *Three periods a week; one hour each. Preparation, 41-12.*

Second term. Three term hours.

ASSISTANT PROFESSOR CONNER

41-14 Railroad Engineering. A recitation course comprising the study of tunnel design, roadbed construction, track materials and track work, frogs and switches, yard and terminal layouts, siding design and construction, signaling and interlocking, equipment and tools, and the general

principles of railroad maintenance. Problems are given in the elementary economic principles involved in railroad upkeep, the treatment of ties, and the capitalized comparison of structures. The student may be required to develop a proposed siding both for the design and the actual staking. Textbooks: The American Civil Engineers' Pocketbook. *Three periods a week; one hour each. Preparation, 41-13. First term. Three term hours.*

ASSISTANT PROFESSOR CONNER

41-17 Railroad Engineering Economics. Lectures and recitations on the economic principles underlying the proper management of all engineering business associated with the location, development, management, and operation of a railroad. A general outline of the procedure in financing railroad ventures is given with the attendant principles involved in bonding and underwriting such projects, and their application is fully demonstrated by the solution of typical problems. Text book: Economics of Railroad Construction, by Webb. *Three periods a week; one hour each. Preparation, 41-14.*

Second term. Three term hours.

ASSISTANT PROFESSOR CONNER

41-21 Highways. Tests of sand, clay, cements, mortars, and crushed stone. Study of requirements and specifications. Tests of tars, oils, and asphalts. Study of sources, manufacture, and requirements. Inspection of a tar refinery and laboratory where commercial methods may be observed.

Field survey for highway location. Study of topography, and conditions affecting location, design of highway, grades, and sections. Field study of types of permanent pavements and maintenance with textbook assignments. Text book: American Civil Engineers' Pocketbook. *One recitation and one three-hour laboratory period per week. Preparation, 41-4.*

Second term. Two term hours.

MR. BURDEN

41-31 Geodesy. The determination of a true meridian by star and solar observations, accurate measurement of a base line, of angles in a triangulation system, and the adjustment of observations by the method of least squares. *Two periods a week; three hours each. Preparation, 41-4.*

Second term. Two term hours.

ASSISTANT PROFESSOR CONNER

41-40 Hydraulic Engineering. Experiments and observations on the flow of water through nozzles, weirs, pipes, canals, and water turbines, together with the study of the associated theory of hydraulics and elementary water power engineering. Textbook: Elements of Hydraulics, by Slocum. *Three periods a week. Preparation, 29-3.*

Second term. Three term hours.

PROFESSOR SANBORN and MR. BURDEN

41-43 Hydraulic Measurements. Experiments on weirs, standard nozzles, proportional water meter, impulse water wheel, duplex pump, and centrifugal pump; river and canal gagings by current meter. Tests of 100 horsepower turbine, 36-inch Venturi Meter, 40-inch riveted pipe and 10-foot weir. Textbook: Elements of Hydraulics, by Slocum. *Two periods a week; three hours each. Preparation, 41-40.*

Second term. Two term hours.

PROFESSOR SANBORN

41-46 Water Supplies. The examination of water supplies, quality of water, communicable diseases, purification of water, water supplies, pipes, reservoirs, dams, pumping machinery. Textbook; American Civil Engineers' Pocketbook. *Three periods a week; one hour each. Preparation, 41-40.*

First term. Three term hours.

PROFESSOR SANBORN

41-47 Water Power Engineering. Water shed areas, stream flow, hydraulics of water wheels and turbines, analysis of turbine tests, selection of turbine for given conditions, water-power development and value of privileges. Textbook: American Civil Engineers' Pocketbook and class notes. *Three periods a week; one hour each. Preparation, 41-40.*

First term. Three term hours.

PROFESSOR SANBORN

41-48 Sewerage. Purification of sewage, design of sewers, forms of construction, modern methods of sewage and garbage disposal, principles of irrigation and drainage. Textbook: American Civil Engineers' Pocketbook. *Three periods a week; two hours each. Preparation, 41-46.*

Second term. Three term hours.

PROFESSOR SANBORN

41-51 Fire Prevention. Fire streams, fire pumps, meters, pipe systems, including automatic sprinklers, watchman service, public fire departments, fire causes, fire-proof and slow-burning construction. Recitation and design from field practice. *Two periods a week; two hours each. Preparation, 41-40.*

Second term. Two term hours.

PROFESSOR SANBORN

41-63 Contracts. The essential elements of all contracts, their formation and modes of discharge, the fundamental principles of successful writing and interpretation of contracts for the erection of engineering works are carefully considered. Commercial contracts are also studied, including contracts of association, of sale, of transportation, and instruments of credit. The duties and legal responsibilities of the engineer as agent, business man, or independent contractor are emphasized, and some practice is had in writing engineering contracts and specifications. Textbook: Contracts in Engineering by Tucker, Elements of Specification Writing, by Kirby. *Three periods a week; one hour each.*

Second term. Three term hours.

ASSISTANT PROFESSOR CONNER

41-95 Civil Engineering Topics. Presentation and discussion of engineering topics. Textbook: Proceedings of the American Society of Civil Engineers for the present year. *Two periods a week; one hour each. Preparation, Junior Civil Engineering courses.*

First term. Two term hours.

PROFESSOR SANBORN

41-99 Civil Engineering Thesis. A special investigation by research, design, or experimentation. The head of the department has authority to substitute another engineering subject for the thesis.

Second term. Three to five term hours.

PROFESSOR SANBORN and ASSISTANT PROFESSOR CONNER

45 APPLIED MECHANICS

45-1 Applied Mechanics. A course in the strength of materials including the mechanics and design of beams, girders, columns and shafts. *Three periods a week; recitations and lectures with numerous problems. Preparation, 29-4 and 45-21.*

First term. Three term hours.

PROFESSOR ROCKWELL

45-2 Applied Mechanics. A course in graphic statics and stresses in simple structures, including also problems in kinetics, work and energy and friction. For students in civil and structural engineering. *Three periods a week; recitations and lectures with problems. Preparation, 45-1.*

Second term. Three term hours.

ASSISTANT PROFESSOR SMITH

45-3 Structural Mechanics. A treatment of the mechanics of masonry and reinforced concrete structures, including the design of retaining walls, masonry arches, and foundations. *Three periods a week; recitations and lectures with problems and designs. Preparation, 45-2 or 45-4.*

First term. Three term hours.

PROFESSOR ROCKWELL

45-4 Applied Mechanics. A course in the mechanics of motion, kinetics, work and energy, and friction, including some graphic statics and stresses in simple structures. For students in mechanical, electrical and chemical engineering. *Three periods a week; recitations and lectures with problems. Preparation, 45-1.*

Second term. Three term hours.

PROFESSOR ROCKWELL

45-12 Applied Mechanics Laboratory. This course deals with the resistance of the materials of construction, and comprises the testing of cast iron, steel, wrought iron, timber, and concrete in tension, compression, and shear, and the determination of the elastic limits, ultimate strengths, and coefficients of elasticity of these materials. *One period a week; two hours. Simultaneous with 45-1.*

First term. One term hour.

ASSISTANT PROFESSOR SMITH

45-21. Mechanics. An elementary course in the principles of statics, centres of gravity, moments of inertia and simple beams. *Three periods a week Preparation, 29-3.*

Second Term. Three term hours.

PROFESSOR ROCKWELL and ASSISTANT PROFESSOR SMITH

47 STRUCTURAL ENGINEERING

47-1 Roofs and Bridges. A study of the fundamental principles of Structural Engineering. It includes the theory of algebraic and graphical stress analysis for statically determinate structures, including roofs, bridges, towers, etc., and the design of structural members and details. *Three periods a week; lectures and recitations, with problems. Preparation, 45-2 or 45-4.*

First term. Three term hours.

PROFESSOR ROCKWELL

47-2 Theory of Structures. An advanced course in the theory and design of structures. The method of influence lines is used to a considerable extent in addition to the usual algebraic methods. *Three periods a week; lectures and recitations, with problems. Preparation, 47-1 and 45-3.*

Second term. Three term hours.

PROFESSOR ROCKWELL

47-3 Structural Design. An introductory course in the design of framed structures. It consists of (a) the critical examination of, and report on, some existing structure and (b) the design and detail drawings for a steel mill building. *Three periods a week; three hours each. Simultaneous with 45-2.*

Second term. Three term hours.

ASSISTANT PROFESSOR SMITH

47-7 Bridge Design. A course in the design of riveted and pin connected steel bridges. It consists of (a) one complete design of a typical bridge, including a critical study of the important details, carried on under the guidance of the instructor, and then (b) each student is given a different set of data from which he is required to make an independent design and general drawing. *Three periods a week; three hours each. Preparation, 47-3. Simultaneous with 47-1.*

First term. Three term hours.

ASSISTANT PROFESSOR SMITH

47-8 Structural Design. The design of masonry and reinforced concrete structures. *Two periods a week; three hours each. Preparation, 45-3.*

Second term. Two term hours.

PROFESSOR ROCKWELL

47-95 Structural Topics and Reports. Reports by each student on assigned reading in engineering literature, and on the stability and safety of structures, based on a personal examination by the student. The presentation is by lecture, but a written copy of each report must be left with the department. *Two periods a week; one hour each. Preparation, credit in required work of the Junior year.*

First term. Two term hours.

PROFESSOR ROCKWELL

47-99 Structural Engineering Thesis. A single topic is developed by extended research, design, or experimentation.

Second term. Three to five term hours.

PROFESSOR ROCKWELL and ASSISTANT PROFESSOR SMITH

51 MECHANICAL ENGINEERING

51-1 Heat Engineering. This course deals with the generation of steam and its use in the steam engine. It comprises a study of modern types of boilers and their auxiliary apparatus, simple and compound engines, both condensing and non-condensing; a discussion of the elementary principles of thermodynamics and of the use of the indicator in steam engine practice. Some attention is given to the production of gas for power purposes and its use in the gas engine. *Three periods a week; one hour each. Preparation, 31-1, or 31-31, and simultaneous with 21-13.*

First term. Three term hours.

PROFESSOR CHASE and Mr. MACNAUGHTON

51-3 Heat Engineering. This course is devoted to the thermodynamics of the steam engine and other heat engines, and includes a study of the properties of steam, gas and air as used in steam engines, turbines, gas engines, air compressors and blowers; also the working fluids and saturated vapors used in refrigeration. The object of the course is to teach the principles, and their application to practical problems. *Three periods a week; one hour each. Preparation, 29-4 and 51-1.*

Second term. Three term hours.

PROFESSOR CHASE

51-7 Engine Design. The design of the steam turbine, steam engine, and gas engine, involving the strength and proportion of parts and including the layout of the valve gear of high speed engines, the Corliss gear and locomotive valve gears. *Three periods a week; two hours each. Preparation, 51-3, and simultaneous with 51-15.*

First term. Three term hours.

PROFESSOR CHASE

51-8 Power Plant Design. A study of steam power plant equipment, including the selection of boilers and engines; pumps, heaters, condensers; arrangement of piping; chimneys, mechanical draft; mechanical stoking, coal handling. Boiler design, including calculations for one type of boiler. *Three periods a week; two hours each. Preparation, 51-7.*

Second term. Three term hours.

PROFESSOR CHASE

51-15 Dynamics of Machinery. A graphical and analytical consideration of the transmission of energy in machines and power transmission. The construction of inertia curves and crank effort diagrams applied to the solution of problems relating to fluctuations in speed, flywheels, balancing of moving parts and regulation by governors. *Three periods a week; one hour each. Preparation, 21-13 and 45-4.*

First term. Three term hours.

PROFESSOR CHASE

51-18 Machine Design. An application of the principles of mechanism and mechanics to the solution of definite problems in the design of representative types of machine. A systematic training of the judgment is an important part of this course. *Three periods a week ; three hours each. Preparation, 21-8, 21-13 and 45-4.*

First and second terms. Six term hours.

PROFESSOR ANTHONY and Mr. MACNAUGHTON

51-24 Mechanical Engineering Laboratory. The determination of the clearance of engines ; valve setting on plain slide valve, riding cutoff, and Corliss engines. Gage testing ; the adjustment and use of indicators ; testing indicator springs ; the use of several types of steam calorimeters ; injector test ; flow of steam through orifices. The results of all laboratory work are submitted in the form of carefully written reports. *Three periods a week ; three hours each. Preparation, 51-1.*

First term. Three term hours.

Mr. MACNAUGHTON

51-26 Mechanical Engineering Laboratory. Steam engines, pumps, and auxiliary apparatus. Tests on riding cut-off shaft governor and Corliss engines ; a 16x8½x9 duplex steam pump ; measurement of water by weir, nozzle and meter ; condenser tests ; analysis of flue gases. Internal combustion engines. Tests on a 10 H.P. 4 cycle gas engine, 11 H.P. 2 cylinder 2 cycle gasoline engine, automobile engines, and marine type engines, including instruction and practice in their operation. *Three periods a week ; three hours each. Preparation, 51-3 and 51-24.*

First term. Three term hours.

PROFESSOR CHASE, Mr. ADAMS and Mr. MACNAUGHTON

51-28 Mechanical Engineering Laboratory. Tests on a horizontal return tubular boiler ; determination of the velocity of steam through ports ; coefficients of friction with different oils and friction on different types of bearings ; test on a 35-inch exhaust fan ; tests on a steam turbine and on an air compressor ; test at a power station, and other tests which may be arranged. *Three periods a week ; three hours each. Preparation 51-26.*

Second term. Three term hours.

PROFESSOR CHASE and Mr. MACNAUGHTON

51-95 Mechanical Engineering Topics. A course of lectures by students. Each member of the course chooses three topics from the proceedings of the American Society of Mechanical Engineers. The subjects are presented to the class in the form of lectures, followed by discussion and criticism. *Two periods a week. Preparation, Junior Mechanical Engineering courses.*

Second term. Two term hours.

PROFESSORS ANTHONY and CHASE

51-99 Mechanical Engineering Thesis. An essay based on extended personal research, design, or experimentation. The head of the department has authority to substitute another engineering subject for the thesis.

Second term. Three to five term hours.

PROFESSORS ANTHONY AND CHASE

54 GEOLOGY

54-1 Physical Geology and Geography. Lectures, recitations, and field work. Mainly for those intending to teach. *Three periods a week; one hour each; and seven Saturday half-day excursions.*

Second term. Three term hours.

PROFESSOR LANE

54-5 Physical Geology.

First term. Three term hours.

PROFESSOR LANE

54-23. Economic Geology.

Second term. One term hour.

PROFESSOR LANE

54-24. Historical Geology.

Second term. Two term hours.

PROFESSOR LANE

61 ELECTRICAL ENGINEERING

61-3 Dynamo Electric Machinery. An elementary course dealing with the fundamental principles of dynamo electric machinery and their application in the construction and operation of generators and motors. Some attention is also given to storage batteries, arc and incandescent lamps, and systems of direct-current distribution. *Three periods a week; one hour each. Preparation, 61-20.*

First term. Three term hours.

ASSISTANT PROFESSOR MUNRO

61-5 Alternating Current Machinery. A course treating of the theory, construction, and operation of synchronous machinery. *Three periods a week; one hour each. Preparation, 61-3.*

Second term. Three term hours.

ASSISTANT PROFESSOR MUNRO

61-8 Electrical Laboratory. Electrical measurements and testing, including calibration of instruments, study of arc and incandescent lamps, and direct current dynamos. *Three periods a week; three hours each. Preparation, 61-3.*

Second term. Three term hours.

ASSISTANT PROFESSORS ROLLINS and MUNRO

61-12 Dynamo Laboratory. Alternating current testing. *Three periods a week; three hours each. Preparation, 61-5.*

First term. Three term hours.

ASSISTANT PROFESSOR MUNRO

61-14 Electricity. Theory of alternating currents and of alternating current machinery. *Three periods a week; one hour each. Preparation, 61-5.*

First and second terms. Six term hours. ASSISTANT PROFESSOR BUSH

61-15 Electrical Engineering. A course dealing with the production, transmission, distribution, and utilization of electrical power. *Three recitations a week, with solution of assigned problems. Preparation, 61-5.*

First term. Three term hours.

PROFESSOR HOOPER

61-16 Electrical Engineering. A continuation of 61-15. *Three periods a week; one hour each. Preparation, 61-15.*

Second term. Three term hours.

PROFESSOR HOOPER

61-17 Telephone and Telegraph. A course on principles and operation of telephone and telegraph systems. *Three periods a week. Preparation, 61-20.*

First term. Three term hours.

ASSISTANT PROFESSOR ROLLINS

61-20 Electrical Engineering. An elementary course in the theory and practical applications of electrical engineering, dynamo-electric machinery, electrical instruments, electro-chemistry, electrical transmission of power, and electrical communication. Textbook, problems, and written reports.

Preparation, 31-2, or 31-32.

Second term. Three term hours.

PROFESSOR HOOPER

61-23 Dynamo Design. A course dealing with the application of the laws of electricity and magnetism to the calculations of electrical apparatus. *Three periods a week; two hours each. Preparation, 61-5.*

First term. Three term hours.

ASSISTANT PROFESSOR MUNRO

61-27 Radio-Engineering. An elementary course in wireless telegraphy and telephony. Lectures and laboratory work. As far as practicable the equipment of the American Radio & Research Corporation will be available for purposes of instruction. Open to Juniors and Seniors with approved preparation. *Three periods a week.*

Second term. Three term hours.

ASSISTANT PROFESSOR BUSH and Mr. POWER

61-96 Electrical Topics. Lectures by students on electrical subjects, followed by discussion and criticism. *Three periods a week. Preparation, 61-15.*

Second term. Two term hours.

ASSISTANT PROFESSOR ROLLINS

61-99 Thesis. An essay based on some construction, design, or investigation. The head of the department has authority to substitute another engineering subject for the thesis.

Second term. Three to five term hours.

PROFESSOR HOOPER, ASSISTANT PROFESSORS ROLLINS, MUNRO and BUSH

64 MINERALOGY

64-1 Mineralogy and Lithology. *Two recitations and four hours laboratory work a week. Preparation, 35-1.*

First term. Three term hours.

PROFESSOR LANE

64-1 Mineralogy alone is of use to civil and structural engineers, but those who are looking to mining or chemical engineering should also take 64-2.

[64-2 Crystallography and Advanced Mineralogy. *Two lectures and four hours laboratory work a week. Preparation, 64-1.*

Second term. Three term hours.

PROFESSOR LANE]

71 GENERAL ENGINEERING

71-2 Military Engineering. A course in the theory and practice of map making, bridge, highway, and railroad construction, together with certain applications of gasoline engines, pumping machinery, field chemistry, and electrical wiring and appliances. *Three periods a week; three hours each.*

First term, three hours.

ASSISTANT PROFESSOR CONNOR, PROFESSORS CHASE, DURKEE,
ROCKWELL, SANBORN and HOOPER

81 POLITICAL ECONOMY

81-1 Elements of Economics. Designed especially for students of engineering; aims at a comprehensive study of the elements of economics, with special reference to present day economic and social problems. Text book (Fetter, Economic Principles), lectures, tests. *Three recitations a week.*

First term. Three term hours.

MR. TUCKER

81-5 Engineering Economics. Designed primarily to study the financial, legal, and operating elements of industrial organizations; the elements of appraisals and valuations; the study and use of the terms, amortization, depreciation, etc. This course is open to students in the Electrical, Mechanical, and Chemical courses. Text books: Engineering Economics by Fish; Efficient Cost Keeping. *Three hours a week; lectures, tests, problems and reports.*

First term, three term hours.

ASSISTANT PROFESSOR CONNER

THE BROMFIELD-PEARSON SCHOOL

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D., President

GARDNER C. ANTHONY, A.M., SC.D., Dean

The Bromfield-Pearson School

The Bromfield-Pearson School is intended to meet the wants of young men whose preparation for an Engineering course may be partially deficient in one or more of the required branches, but whose practice and experience in the applied part of Engineering may qualify them to pursue college work while making up these deficiencies. By this means an engineering education is made possible to those who may have been deprived of the opportunities for obtaining the necessary preparation, or who may have allowed considerable time to elapse between the high school and the college course. A mature mind, industrious habits, and appreciation of the value of an engineering education are essential.

ADMISSION REQUIREMENTS

Students intending to join the School must obtain from the Dean an application blank, which they are required to fill out and return. On receipt of this statement the Dean will give the conditions of entrance and the program of studies.

No student will be admitted to the School for more than one year.

Students admitted to college classes will be required to obtain a somewhat higher per cent. than the minimum requirement for engineering students.

On the satisfactory completion of one year of work students will be given a certificate of admission to the College. If they have maintained an approved grade in subjects required for the degree they will receive due credit.

The President and the Dean have final authority concerning admission, promotion, and discipline.

For other information address GARDNER C. ANTHONY, Dean of the Bromfield-Pearson School, Tufts College, Mass.

THE CRANE THEOLOGICAL SCHOOL

LEE SULLIVAN MCCOLLESTER, S.T.D., Dean

Standing Committees

COMMITTEE ON CURRICULUM: Dean McCollester, *Chairman*; Professors Cushman and Skinner.

COMMITTEE ON PROMOTIONS: Dean McCollester, *Chairman*; Professors Skinner and Mitchell.

Faculty of the Crane Theological School

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D., PRESIDENT

LEE S. MCCOLLESTER, S.T.D., DEAN

Packard Professor of Christian Theology

CHARLES H. LEONARD, A.M., S.T.D., LL.D., DEAN, EMERITUS

Goddard Professor of Homiletics and Pastoral Theology

WILLIAM H. REED, A.M., RECORDING SECRETARY †

Professors

HENRY I. CUSHMAN, A.M., D.D.

Homiletics

HINCKLEY G. MITCHELL, D.D.

Hebrew and Old Testament Exegesis

CLARENCE R. SKINNER, A.M.

Woodbridge Professor of Applied Christianity

Instructors

L. ALONZO BUTTERFIELD, PH.D.

Instructor in Oratory

Students in the Crane Theological School are also admitted to classes in the School of Liberal Arts.

NON-RESIDENT LECTURERS

FREDERICK A. BISBEE, D.D.

HAROLD MARSHALL

FREDERIC W. PERKINS, S.T.D.

LEVI M. POWERS, S.T.D.

EDSON REIFSNIDER, D.D.

REV. HERBERT E. BENTON, A.B., B.D.

† *Ex officio*, as Recording Secretary of the Faculty of Arts and Sciences.

The Crane Theological School

The Relation of the School to Tufts College

In 1906 the name of the Divinity School was changed to the Crane Theological School, in recognition of a gift of one hundred thousand dollars from the estate of the late Thomas Crane of New York, whose son, Albert Crane, '63, thus carried out the expressed purpose of his father.

The Crane Theological School is one of the coördinate departments of Tufts College. Students of the School are members of the College, enjoying its privileges and subject to its regulations.

Outline of Courses

Recognizing that peculiar difficulties and radically new demands confront the Christian minister to-day, Crane Theological School frankly seeks to adapt its discipline to the new conditions. This, quite naturally, has led to the adoption of a distinct and somewhat distinctive ideal or aim. While rigorously faithful to the fundamentals of a liberal culture, and alert to discover and foster special interests and gifts, the primary aim is *practical* rather than *academic*—to turn out, not men distinguished for varied and curious learning, but men thoroughly equipped for moral and religious leadership.

Three courses are presented: one of three years, for students who have already received regular college degrees, leading to the degree of S.T.B.; one of five years, for students who have no degree but have had, or received at Tufts College, the essentials of the College course together with the theological course, leading to the degree of S.T.B.; and one of six years, combining the College and Theological Courses, leading to the two degrees of A.B. and S.T.B.

Students may also enter for special courses.

The number of hours required for the different degrees, and the arrangement of the work depend on the degree or degrees sought. The requirement for the combined course, leading to the two degrees of A.B. and S.T.B., is one hundred eighty-two hours. The subjects are taken from the following list.

Foreign Languages. Hebrew, Greek, Latin, German, French.

Science. Mathematics, Physics, Chemistry, Biology, Geology.

History. Ancient and Modern; Civil and Religious; Apostolic Church; Evolution of Religions.

Bible. Old Testament and New Testament Literature; Theology; Ethics; History; Criticism.

Philosophy. Logic; Ethics; Psychology; Theism; Systematic Theology; Types of Christian Faith.

Sociology. Economics; Applied Christianity; Missions; Social Laboratory; Jesus and Modern Society.

English. Rhetoric; Oratory; Literature; Homiletics; History of Preaching; Liturgics.

Religious Education. Religious Psychology; Religious Pedagogy; Sunday Schools; Pastoral Methods; Church Unity; Scientific Management.

Physical Education.

A student taking the six year course must complete the Foreign Languages and Science required for the Bachelor's Degree in the School of Liberal Arts and in addition he must take eighteen hours of History, twenty-one hours of Bible, twenty-one hours of Sociology, twenty-four hours of Philosophy, and thirty-six hours of English.

Courses of Instruction

In the following list of subjects, the department and name of the officer in charge are first given. Each department has its fixed number and each subject its symbol.—When subjects do not continue through the year, (f) means that they occur in the first term and (s) means that they occur in the second. Unless otherwise indicated, instruction in each subject is given three times each week and its credit is three term-hours per half-year. Subjects enclosed in brackets are not offered during the current year.

16 ETHICS AND PHILOSOPHY OF THEISM

PROFESSORS ——— and SCHMIDT

The details of these courses are to be found in the courses offered by the School of Liberal Arts.

16-1. (F) Introduction to Philosophy.

16-3. (F) Logic.

16-55. Psychology.

56 HISTORY OF RELIGIONS

PROFESSOR SKINNER

56-4. Origin and Development of Primitive Religions; a brief survey of Confucianism, Shintoism, Buddhism, Religions of India, Mohammedanism, etc.

56-5. (F) History of the Christian Church to the Protestant Reformation: The Apostolic Age; Rise of the Papacy; Study of the great men and institutions of the Middle Ages; Development of Theology; Holy Roman Empire; Scholasticism.

56-6. (s) History of the Christian Church from the Reformation to the present time: The Reformation in Germany, Hungary, England, France, etc.; Puritanism; American Sects; Modern Religious Tendencies; Liberal Christianity.

[56-7. Special Investigations. A research course into Religious Literature; Archæology; Architecture. *Two term hours.*]

58 OLD TESTAMENT

PROFESSOR MITCHELL

58-3. The Hebrew Language. First Semester: the elements of Hebrew etymology, reading and writing in Hebrew. Second Semester: readings from the books of Judges and Samuel, with notes and references on Hebrew syntax.

58-6. (F) The Narrative Literature. A comparative study of the historical books to determine their relative value from the literary, historical, and religious standpoint. *Two term hours*

58-7. (s) The Prophetic Literature. An examination of selections from the works of the principal prophets, to ascertain the literary and doctrinal peculiarities of each, and its place in the development of Hebrew prophecy. *Two term hours.*

58-8. (F) The Didactic Literature. The books of Job, Proverbs, and Ecclesiastes, and their significance in the history of Hebrew thought. *Two term hours.*

58-9. (s) The Lyric Literature. Early songs; select psalms of devotional or theological importance; the Song of Solomon and its structure and meaning. *Two term hours.*

58-10. (F) The Ethics of the Old Testament. A survey of the development of moral ideas among the Hebrews, with lectures and papers. *Two term hours.*

58-11. (s) Introduction to the Old Testament. An inquiry into the age, and structure, authorship, and history of the several books, with lectures and papers. *Two term hours.*

58-12. The Theology of the Old Testament. A systematic study of the results of theological thinking among the Hebrews which appear in their Scriptures. *Two term hours.*

68 NEW TESTAMENT

PROFESSORS MITCHELL AND MCCOLLESTER AND ASSISTANT
PROFESSOR WYATT

68-4. New Testament Greek. ASSISTANT PROFESSOR WYATT

[68-11. (s) Life of Jesus: Beginnings of Christian Church.]

PROFESSOR MCCOLLESTER

68-12. (s) Introduction to the New Testament. An inquiry into the structure, origin, and history of the several books. Lectures and papers. *One term hour.*

PROFESSOR MITCHELL

68-13. (F) The Gospels. A comparative study, the object being a familiar and sympathetic acquaintance with the life and teachings of Jesus. Lectures and papers. *Three term hours.*

PROFESSOR MITCHELL

68-14. (s) The Acts of the Apostles, as a source of knowledge concerning the beginnings of the Christian Church and the personalities of its founders. Lectures and papers. *Two term hours.*

PROFESSOR MITCHELL

68-15. (s) The Epistles. Select Readings, with especial attention to the conditions under which they were written and the religious and theological development of which they give evidence. Lectures and papers. *Two term hours.*

PROFESSOR MITCHELL

68-16. The Theology of the New Testament. An examination of its component parts in the order of their origin, to ascertain their teaching, direct or indirect, on the various topics of theological thought. Lectures and papers. *Two term hours.*

PROFESSOR MITCHELL

A course in the Bible as English Literature (12-10) is given in the College of Liberal Arts by Professor McCollester, and is open to students of the Theological School.

76 APPLIED CHRISTIANITY

PROFESSOR SKINNER

76-7. (S) Social Psychology. A study of the self as a social product, an analysis of group and race characteristics, and of social conduct. Various authors are studied, such as Ross, Ellwood, Tarde, Le Bon, etc.

76-8. Principles and methods of Social Service, and of practical community leadership. The most important phases of social development are studied in their relation to economic and spiritual forces. Various welfare institutions are visited; brief comments are written upon each; students perform specific service under direction. *Two hours class work, one hour field work, per term.*

76-10. (S) Home and Foreign Missions. The aim is to make the student sympathetic with the motives and movements of missions and cognizant of methods. *One term hour.*

76-11. (F) Seminar in Country Church Problems. The country church and its ministry, in relation to rural development. *One term hour.*

76-12. Laboratory Social Work. A course in field investigation with an approved social agency, such as Settlements, Charity Organizations, etc. Assigned reading. Conferences with instructor. *Two term hours.*

[76-13. Race Problems. The history of immigration and an examination of its effects at home and abroad. Discussion of plans for Americanization.]

78 RELIGIOUS EDUCATION

PROFESSORS SKINNER and MCCOLLESTER

78-1. (F) Religious Pedagogy. Church, school methods, organization, curriculum, management, and efficiency are studied theoretically and are given practical demonstration. *Two term hours.* PROFESSOR SKINNER

78-2. (S) A course in practical Sunday School teaching. The student is acquainted with the materials and curricula of the graded system and uses them in actual teaching under the criticism and supervision of the instructor. *Two term hours.* PROFESSOR SKINNER

78-3. (F) Applied Religious Psychology. Various phases of normal and abnormal experience are studied and types of Christian character are analyzed. The validity of religious experience is emphasized.

78-4. (F) Pastoral Care. Clerical Life and its Problems, Universalist forms, ceremonies, and government, Art in relation to religious effectiveness. *Two term hours.* PROFESSOR MCCOLLESTER

82 HOMILETICS AND PASTORAL CARE

PROFESSORS CUSHMAN and MCCOLLESTER

82-1. Introductory Course in Homiletics. (a) Lectures and recitations on the basis of text book, Hoyt's "The Work of Preaching." (b) Sermon Making. Short extempore and written sermons on texts or topics chosen by students or assigned by the instructor. (c) Cultural study of the words and life of Christ as fundamental preparation for preaching. (d) Conferences.

82-2. Advanced course in Homiletics. (a) Lectures and recitations on the basis of text book, Hoyt's "The Preacher." (b) The art of preaching. Practice in the making of sermons, and in their delivery in class. (c) Pastoral Care. Studies in the conduct of Public Worship, and of special services on the basis of Dean Leonard's Book of Prayer. Baptism, Confirmation, the Holy Communion, Marriages and Funerals will be considered; also, Parish Calls and other pastoral functions with Gladden's "The Christian Pastor" as a book of reference. (d) Conferences.

86 THEOLOGY

PROFESSOR MCCOLLESTER

86-1. (s) Historical Introductions to the general subject of Theology.

[**86-2.** Theology: A survey of the general field of Theology; Modern Conclusions.]

86-3. Philosophy and History of Universalism: Unitarianism; Congregationalism; Liberal Leaders. Ballou, Channing, Farrar, Emerson. *Two hours.*

86-4. (F) Systematic Theology.

THE PROFESSION OF THE MINISTRY

Lectures are given by clergymen and educators at frequent intervals on ministerial habits, scientific management of parishes, case work, reading courses, church architecture, Universalist polity, and interdenominational relations.

EXPENSES AND PECUNIARY AID

Tuition in the Crane Theological School is one hundred dollars per annum which gives a student a free room in Paige Hall. Students preparing for the Universalist ministry may obtain scholarships (covering tuition and room in Paige Hall) providing they maintain a high grade in their classes. Incidental expenses are not many and board may be obtained at moderate terms.

A registration fee is required of all students entering Tufts College for the first time.

The income from the following scholarships is available for theological students.

THE GREENWOOD SCHOLARSHIP. \$1,000
Founded in 1877 by Mrs. Eliza M. Greenwood, of Malden. Given to that member of the advanced class in Homiletics who, maintaining a high standard of work as a student, has made in all the work in Homiletics and Oratory the most satisfactory progress.

THE DOCKSTADER SCHOLARSHIPS. \$10,000
Founded in 1890 by George A. Dockstader, of New York. Appropriated to the aid of needy and worthy students.

THE HENRY L. BALLOU SCHOLARSHIP. \$1,000
Founded in 1897 by Susan Ballou, of Woonsocket, R. I.

THE BRADLEE SCHOLARSHIPS. (2) \$2,000
Founded in 1897 by Caleb D. Bradlee, D.D., of Brookline.

THE GOLDTHWAITE SCHOLARSHIPS. (2) \$2,000
Founded in 1897 by Willard Goldthwaite, of Salem.

THE HOLT SCHOLARSHIP. \$1,000
Founded in 1897 by Miss Celia Holt, of Stafford, Conn.

THE WHITTEN SCHOLARSHIP. \$1,000
Founded in 1897 by Mrs. Maria F. Whitten, of Cambridge.

THE SARAH ELIZABETH PERKINS SCHOLARSHIP. \$1,000
Founded in 1898 by James D. Perkins, of Brooklyn, N. Y.

THE LUCIUS R. PAIGE SCHOLARSHIPS. (2) \$2,000
Founded in 1902 by Lucius R. Paige, D.D., of Cambridge, Mass.

THE ANN M. PAIGE SCHOLARSHIPS. (2) \$2,000
Founded in 1903 by Ann M. Paige, wife of Rev. Lucius R. Paige, of Cambridge, Mass.

THE JOHN MURRAY SPRAGUE AND ELIZA FLETCHER SPRAGUE
SCHOLARSHIP. \$2,000

Founded in 1908 by John M. Sprague. Appropriated to the aid of needy and deserving students, preference being given to any student, otherwise eligible, who is a direct descendant of the donor's father, John Sprague.

THE CATHERINE CONANT SCHOLARSHIPS. (4) \$5,000

Founded in 1910 by Mrs. Catherine Conant, of Newark, N. J.

The General Convention of Universalists aids students by loan scholarships, not exceeding one hundred and twenty-five dollars a year to any one student, subject always to the recommendation of the Faculty of the Theological School.

Students who are in the regular course are permitted to preach, under the direction of the Faculty, during the year-and-a-half preceding their graduation.

Students who have to pay their own way through school find many opportunities at Tufts to earn money—and expenses may be reduced to a low figure.

THE GRADUATE SCHOOL

CHARLES ERNEST FAY, A.M., LITT.D., Dean

Standing Committees

EXECUTIVE: President Bumpus, *Chairman*; Dean Fay and Professor Denison.

REQUIREMENTS FOR DEGREES: Dean Fay, *Chairman*; Professors Metcalf and Durkee.

Faculty of the Graduate School

HERMON CAREY BUMPUS, PH.D., SC.D., LL.D., PRESIDENT

CHARLES E. FAY, A.M., LITT.D., DEAN

Wade Professor of Modern Languages

WILLIAM H. REED, A.M., RECORDING SECRETARY

Professors

Arranged in order of their appointment at Tufts College

WILLIAM L. HOOPER, A.M., PH.D., LL.D.

Electrical Engineering

FRANK W. DURKEE, A.M.

Chemistry

LEO R. LEWIS, A.M.

History and Theory of Music

FRANK G. WREN, A.M.

Walker Professor of Mathematics

WILLIAM K. DENISON, A.M.

Latin Language and Literature

HENRY C. METCALF, PH.D.

Jackson Professor of Political Science

WILLIAM R. RANSOM, A.M.

Mathematics

ARTHUR I. ANDREWS, PH.D.

History and Public Law

KARL SCHMIDT, PH.D.

Philosophy and Education

LEE S. MCCOLLESTER, S.T.D.

Packard Professor of Christian Theology

HERBERT V. NEAL, PH.D.

Zoology

CHARLES H. GRAY, PH.D.

English

The Graduate School

The Graduate School has control of all advanced work leading to the higher academic degrees.

The advanced elective work offered to undergraduates in any department of the Associated Schools is open to graduate students, and will count for the Master's degree. Graduate courses are arranged with the instructor in whose department the work is to be done, and must be approved by the Faculty of the Graduate School.

DEGREES

The degrees offered are Master of Arts and Master of Science. Departments open to candidates are:

ENGLISH	MUSIC
MODERN LANGUAGES	MATHEMATICS
ANCIENT LANGUAGES	CHEMISTRY
PHILOSOPHY AND EDUCATION	BIOLOGY
HISTORY AND PUBLIC LAW	ELECTRICITY
POLITICAL SCIENCE	

THE DEGREE OF MASTER OF ARTS will be conferred upon graduates of Tufts College who have received the degree of Bachelor of Arts, or upon graduates of other colleges whose course of study has been equivalent to that required at Tufts College for the degree of Bachelor of Arts, upon the following conditions :

1. They must have completed an approved course of advanced study, covering the equivalent of at least thirty term hours, in one or at the most two departments. If two departments are chosen they must be allied.
2. This course must be pursued during a residence of not less than one year. For graduates of Tufts College, the condition of residence may be waived by special permission, but the degree cannot then be taken with less than two years of graduate study.
3. The candidate must prepare a thesis in the form prescribed by the regulations, and must pass a satisfactory examination under the supervision of a board of three examiners, appointed by the Graduate Faculty at its stated meeting on the Friday following the last Monday in May. The thesis must be presented at least one month before Commencement.

4. No subject counted for the bachelor's degree will be counted for the master's degree.

5. Application for admission to the Graduate School should be made to the Dean in writing prior to September 20 of the college year in which the degree is to be conferred and the candidate should report for registration on the opening day of the College. If the degree is not taken after the first year of study, a second notice must be given at least three months prior to the Commencement at which the degree is expected. The application must specify the department or departments in which it is proposed to pursue work for a degree.

THE DEGREE OF MASTER OF SCIENCE will be conferred upon Bachelors of Science who have pursued advanced study at Tufts College for one year, under the conditions required of candidates for the degree of Master of Arts; or upon any Bachelor of Science of Tufts College who shall pursue graduate study *in absentia* for at least two years, or who, as an engineer, shall have continued his scientific researches with marked ability for at least three years, holding in the meantime a position of large responsibility. A thesis will be required.

SPECIFIC REQUIREMENTS IN THE SEVERAL DEPARTMENTS

[For a detailed description of the subjects indicated by their numbers in the following statements, see "Departments of Instruction" in the sections of this catalogue devoted to the School of Liberal Arts and (for Electricity) to the Engineering School.]

ENGLISH.—It is assumed that candidates for the degree of Master of Arts in English will have already laid a good foundation in English composition and the history of English and American literature. The amount of this work, in general, is that required of a "major student" in the department. Unless already covered in undergraduate work, the subjects numbered 12-7, 12-10, 12-13 to 12-18, 12-23 to 12-25, 12-29, and 12-36 may be counted toward the Master's degree, though a higher standard of attainment will be expected than from undergraduates. Part of the work, however, or even the entire work, may consist of a course of independent study of investigative order, under the direction of the department. This may take the form of a discussion of some question in literary history or criticism, or it may consist of an

intensive study of an author or a period. A reading knowledge of German and French is usually necessary.

MODERN LANGUAGES.—A candidate for the Master's degree in this Department must have completed the equivalent of subjects 1 to 3 in both French and German (32 and 22) and 3B and 4 of the language in which the major part of the work is to be performed. The earlier part of the work for candidates who have not taken the more advanced courses is done with undergraduate classes. Of "elementary" subjects only Italian and Spanish may be taken. Graduate students registered in other departments are admitted to such modern language classes as their proficiency may warrant.

ANCIENT LANGUAGES.—A candidate for the Master's degree in Greek or Latin must have completed for Greek subjects 62-1, 62-2, 62-3, and 62-4 or 62-5; for Latin, 52-1, 52-2, 52-3 or 52-4, and 52-5. It is desirable that when the degree is sought in one of these languages the other should be taken as a collateral subject. Unless anticipated as undergraduate work, Greek 62-4, 62-5, 62-7, Latin 52-3, 52-4, 52-6, and Classical Archæology 28-1, to 28-8, may be counted towards the higher degree. Work will be done either in advanced classes with undergraduates or on special lines of investigation approved by the instructor. The thesis will embody the results of the investigation of some author or period, or of some philosophical or archæological subject. A reading knowledge of French and German is indispensable.

PHILOSOPHY.—Some of the prerequisites for advanced work in Philosophy can be stated: a reading knowledge of French and German; Philosophy 16-1 and 16-2, or their equivalent, and one at least of the following three courses: 16-3, 16-8, 16-55, or their equivalent; others depend on the line of work chosen. For example, advanced work in Logic presupposes a knowledge of Mathematics and possibly of Physics. Special requirements will be stated to the student when the field of research is chosen.

HISTORY AND PUBLIC LAW.—Before beginning graduate work in History and Public Law, the candidate must have completed History 36-1 and 36-2, and Public Law 46-1 or 46-2, or their equivalent. The advanced subjects enumerated in the catalogue, in so far as they are suited to individual needs, may be offered for the higher degrees, but it is expected that much of the candidate's work will consist of special studies pursued, under the direction of the department, and of an independent investigation of a definite subject, the results to be embodied in the required thesis. A working knowledge of French is essential, and of German is desirable.

POLITICAL SCIENCE.—When work is done in residence, the advanced courses, such as Business Organization and Management, Problems of Labor and Capital, Railroads, Finance, and Sociology, which have not been counted in undergraduate work, will be counted for the Master's degree. When residence is waived, the work will cover two years of research with stated conferences, the results to be embodied in the required thesis. A good reading knowledge of French and German is desirable, and may in certain lines of work be necessary.

MUSIC.—Graduate study in Music may follow one of three lines: Composition, History, or Criticism. The last-named includes advanced work in Musical Appreciation. In preparation for Composition the subjects numbered 38-9 and 38-10, or their equivalent, must have been completed, together with a year's work either in 38-25 or in the purely technical subjects. A reading knowledge of French and German is indispensable. The required thesis will consist (in Composition) of a sonata or a work of similar scope, or (in History or Criticism) of a paper on an assigned topic.

MATHEMATICS.—Graduate students in Mathematics must have acquired a working knowledge of the calculus, and may offer as part of their work for the Master's degree any of the subjects given by the department except 14-1, 14-4, 14-5 and 14-6, but subjects 14-7, 14-9 and 14-10, or their equivalent, must be included.

Candidates will hold themselves in readiness to be examined at the end of their studies upon any topics treated in the four subjects noted as exceptions, as well as upon work offered for the degree.

BIOLOGY.—Before beginning graduate work in Biology, the student must have a good knowledge of the elements of plant and animal morphology and physiology and must have completed subjects 44-3 and 44-7, or their equivalent. A reading knowledge of scientific French and German is also necessary. The work offered for advanced degrees is in the line of plant and animal morphology.

CHEMISTRY.—Before beginning graduate work in Chemistry, subjects 35-1, 35-2 and 35-3, or their equivalent, must have been completed. Subjects 35-4 to 35-17 inclusive may be counted toward the Master's degree if they have not already been counted as a part of undergraduate work. A good reading knowledge of German is desirable, and in certain lines of work necessary.

ELECTRICITY.—As a preparation for graduate work in Electricity the candidate must have a good mathematical foundation, including a working knowledge of differential equations, and must have credit in Physics 31-1, 31-2, 31-8, and 31-9, or their equivalent. Of the thirty term hours required, nine may be used in the preparation of the required thesis.

EXPENSES

The tuition fee for the whole course for the degree of Master of Arts, or Master of Science, is *one hundred dollars*, of which one half is payable in advance. The registration fee of five dollars is required of all students registering at Tufts College for the first time.

SCHOLARSHIPS

In each department offering graduate work the Trustees of Tufts College have established one scholarship which gives free tuition. The incumbent is expected to devote himself exclusively to advanced study.

These scholarships are awarded by the Graduate Faculty, on recommendation of the heads of departments concerned, at or before the beginning of the year in which they are to be conferred. Applications must be made to the Dean of the Graduate School.

TWO-YEAR PRE-MEDICAL COURSE

FRANK GEORGE WREN, A.M., Dean

Standing Committees

CURRICULUM: Dean Wren, *Chairman*; Professors Ashley and Bates, Messrs. Shaw and Swett.

PROMOTIONS: DEAN WREN, *Chairman*; Professors Ashley and Seavey, Messrs. Cook and Swett.

Calendar of the Pre-Medical Course

1918

- JAN. 2. Christmas recess ends, Tuesday Evening.
FEB. 4. Second half-year begins, Monday, 9 A.M.
FEB. 22. Washington's Birthday. Exercises are suspended.
APRIL 17. Spring recess begins, Wednesday Evening.
APRIL 22. Spring recess ends, Sunday Evening.
MAY 30. Memorial Day. Exercises are suspended.
JUNE 8, 10, 11, 12, 13. Final examinations.
JUNE 17-22. Entrance examinations conducted by the College Entrance Examination Board. Application blanks may be obtained from the Secretary of the Board, 431 West 117th St., New York, N. Y.
JUNE 20. Registration begins.
-

- SEPT. 16. Examinations for the removal of conditions.
SEPT. 16, 17, 18. Examinations for entrance given at Ballou Hall, Tufts College. For the schedule see "Admission by Examination."
OCT. 3. Registration closes 10 A.M. Thursday.
OCT. 3. Pre-Medical Course begins.
OCT. 12. Columbus Day. Exercises are suspended.
NOV. 27. Thanksgiving recess begins, Wednesday Evening.
DEC. 2. Thanksgiving recess ends, Sunday Evening.
DEC. 21. Christmas recess begins, Saturday, 1 P.M.

1919

- JAN. 2. Christmas recess ends, Wednesday Evening.
FEB. 3. Second half year begins, Monday, 9 A.M.
FEB. 22. Washington's Birthday. Exercises are suspended.
APRIL 16. Spring recess begins Wednesday Evening.
APRIL 21. Spring recess ends, Sunday Evening.
MAY 30. Memorial Day. Exercises are suspended.
JUNE 6, 7, 9, 10, 11, 12. Final Examinations.

Faculty of the Two-Year Pre-Medical Course

(The address is Tufts College, Mass., unless otherwise indicated. The names below comprise the Instructing Staff for the first year of the course which is the only one given in 1917-18.)

Administrative Officers

- HERMON CAREY BUMPUS, PH.D., Sc.D., LL.D. . . 8 Professors Row
PRESIDENT
- FRANK GEORGE WREN, A.M. 65 Talbot Ave.
Dean of the Faculty of the School of Liberal Arts
- FLORENCE MIRICK ROSS Dorchester
Assistant to the Dean

Professors

- RAYMOND HARMAN ASHLEY, B.S., A.M. PH.D. . . 8 Ossipee Rd.,
Chemistry W. Somerville
- GEORGE ANDREW BATES, M.Sc., D.M.D. Auburndale
Biology
- FRANK ELIAS SEAVEY, A.M. 45 Sawyer Ave.
English

Instructors

- JAMES ANTHONY BRADLEY, A.B. 35 Pearl St., Medford
Chemistry
- HAROUTIOUN HOVANS CHAKMAKJIAN, A.B. . . 5 Blossom St.
Chemistry Arlington Heights
- LEROY JAMES COOK, A.M. 15 Cottage Park Rd.,
French Winthrop
- CHARLES GOTT, A.M. 145 Larch Rd., Cambridge
English
- ARTHUR LEWIS GREELEY, A.B. . . . 20 Wescott St., Dorchester
Chemistry
- SHIRLEY WILCOX HARVEY, A.B. Dean, 6
English
- ETHEL MARR McCALLUM 45 Sawyer Ave.
English
- FRANCIS O'MEARA, M.S. 72 Mapleton St., Brighton
Chemistry

EDWIN ADAMS SHAW, A.M. . . 63 College Ave., West Somerville
Mathematics

FRANCIS HUNTINGTON SWETT, A.M. . 28 Mechanic St., Boston
Biology

GEORG VAN WIEREN So. Framingham
German

Assistants

GEORGE FRANCIS CALDICOTT Milford
Biology

DAVID HOWARD GIBSON Cambridge
Biology

MAHLON GILMAN KNOWLES, B.S. Swampscott
English

FRANKLIN JAMES MINAH 28 Mechanic St., Boston
Biology

GEORGE WILSON ROOD W. Somerville
Biology

For several years so-called medical preparatory courses have been given at the College. These are regular four-year courses leading to the bachelor's degree, and they will be continued, for the Trustees believe that a full college course is the best preparation for those who are to choose the profession of medicine.

There are, however, many students, young men and women, who cannot afford the time or the expense requisite for the attainment of a college degree. The Two-Year Pre-Medical Course herein described is designed to meet, in a practical way, the needs of this class, but it should be distinctly understood that the College will not look with favor upon those who comply merely with a minimum of the requirements for admission and yield a low grade of work. The College expects earnestness and proficiency from all its students, and will add to the quantity and quality of the work herein described as it may feel is to the best interests of the student, the School, and the profession.

Two-Year Pre-Medical Course

The Association of American Medical Colleges, of which Tufts College Medical School is a member, has voted that students may be admitted to medical schools of "Class A" under the following conditions:

(a) The student must have completed a four-year course in an accredited high school and

(b) He must have taken at least two years of pre-medical work in an accredited college or university. This course must include Physics, Chemistry, Biology and either French or German.

The Trustees of Tufts College have arranged the following Two-Year Pre-Medical Course in accordance with this action of the Association of American Medical Colleges.

REQUIREMENTS FOR ADMISSION

Admission to the first-year class may be obtained in one of two ways:

(1) *By presenting a diploma and a transcript of record from an accredited high school or academy:*

The transcript of record must show adequate preparation in certain subjects falling in two groups, known respectively as the Required and the Elective Group. In these groups the term "unit" represents a year's study in the specified subject and is the equivalent of approximately a quarter of a full year's work.

Required Group, 8 Units		Units
English		3
Foreign Language (elementary)		2
History		1
Algebra A1		1
Plane Geometry		1

No subject offered in the Required Group can be counted in the Elective Group.

In addition to the eight units of the Required Group candidates for admission must also present subjects chosen from the following Elective Group equivalent to seven units.

The Elective Group, 7 Units

	Units		Units
Greek	2 or 3	Freehand Drawing . . .	$\frac{1}{2}$
Latin	2, 3, or 4	Shop Work	$\frac{1}{2}$ to 2
French	2 or 3	Musical Appreciation . .	$\frac{1}{2}$
German	2 or 3	Music (Harmony)	$\frac{1}{2}$
Chemistry	1	Algebra A2	1
Physics	1	Advanced Algebra	$\frac{1}{2}$
Biology	1	Solid Geometry	$\frac{1}{2}$
Botany	1	Trigonometry	$\frac{1}{2}$
Zoology	1	English History	1
Geology or Geography .	1	Ancient History	1
Mechanical Drawing . .	1	American History and Civil Government	1

(2) *By passing examinations:*

Students who desire to satisfy the above requirements may take the examinations either in June or in September, or a part in June and a part in September.

The June examinations, arranged by the College Entrance Examination Board, will be given June 17 to 22, 1918, at Robinson Hall, Tufts College, Mass., and elsewhere, as announced by the Board. All applications for June examinations must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N.Y., and the student intending to take the Board examinations should make his plans known to the Secretary at an early date, if possible prior to May 1, in order to comply with all of the conditions imposed by the Board.

The September examinations are arranged by Tufts College and will be given September 16 to 18, 1918, at Ballou Hall, Tufts College, Mass. On the day of their first examination applicants for the September examinations are required to register at the office of the Registrar at Tufts College and pay an examination fee of \$5.00.

The schedule of examination dates for September, 1917, is as follows:

- SEPT. 16. Elementary, Intermediate, and Advanced French, 9 to 11; Elementary, Intermediate, and Advanced German, 11 to 1; Elementary and Advanced Greek, Advanced Algebra and Trigonometry, 2 to 5; * American History, 2 to 4; English History, 4 to 6.
- SEPT. 17. Algebra, 9 to 10.30; English, 10.30 to 12.30; Plane Geometry, 2 to 4; Physics, 4 to 5.
- SEPT. 18. Elementary, Intermediate, Advanced Latin, and Drawing, 9 to 12; Solid Geometry, 9 to 11; Biology, Botany, Geography, Geology, Zoology and Economics, 11 to 1; Ancient History, 2 to 4; Chemistry, 4 to 5.

The requirements are well known to the principals of all secondary schools. Details will be sent on application.

EXPENSES

A fee of five dollars is payable at the time of registration.

The tuition fee of *one hundred and twenty-five dollars* is payable on the opening day, and unless otherwise arranged must be paid in full before October 1.

If desired, however, this amount may be paid in two instalments, in which case, an additional charge of five dollars is made and the fees are then paid as follows:

First payment, *seventy dollars*, payable on or prior to the opening day.

Second payment, *sixty dollars*, payable on or before February 1.

Laboratory and anatomical materials are supplied at cost.

APPLICATION AND REGISTRATION

A student who intends to enter the Two-Year Pre-Medical Course must apply to Frank G. Wren, Dean, 416 Huntington Avenue, Boston, Mass. Application blanks will be mailed upon request.

Registration for the session 1918-19 will begin at the Medical School Building, 416 Huntington Avenue, Boston, Massachusetts, on Thursday, June 20, 1918, at 9 A.M. and will continue until Thursday, October 3, at 10 A.M. College work will begin on the latter date and continue according to the calendar.

*Persons desiring to be examined in Medieval or Modern History are requested to confer with the examiner.

Course of Instruction

The arrangement of the two-year course at Tufts is intended to satisfy the requirements for admission as outlined by the American Medical Association, and at the same time to develop the mind of the student in a broad way. The following schedule of subjects has been proposed:

First Year

First Semester

Biology (Vertebrate Zoology)

Chemistry (General)

English

French or German

Mathematics

Second Semester

Biology (Vertebrate Zoology)

Chemistry (General and Qualitative)

English

French or German

Elementary Economics

Second Year

Biology (Principles)

Chemistry (Quantitative and Organic)

Physics

Literature

Psychology

Biology (Embryology)

Chemistry (Quantitative and Organic)

Physics

Literature

History and Civics

The description of these subjects is given under "Departments of Instruction."

Only the First Year of the course will be given during the year 17-18.

Departments of Instruction

BIOLOGY

The courses in Biology are planned to give training in methods of exact observation and deduction and to give the fundamentals in this branch of science so necessary to the medical student. Especial attention will be given to the higher forms, and in so far as is possible, types which have a direct bearing upon the health and economy of man, as viewed from the medical standpoint, will be chosen for study.

First Year. Vertebrate Zoology — Principles of living matter shown in the fundamental properties of protoplasm, structure of tissues, organs, and organism.* A systematic survey of the vertebrates with a comparative study of their structure as a key to human anatomy.

Two lectures and four hours of laboratory work each week throughout the year.

Second Year. Principles of Biology — Plant and invertebrated animal forms will be considered, with emphasis on those playing a part in the normal and pathological activities of the human body.

Two lectures and four hours of laboratory work each week throughout the first semester.

Second Year. Embryology — An introduction to the principles of vertebrate development in direct preparation for the work of the medical course.

Two lectures and four hours of laboratory work each week throughout the second semester.

CHEMISTRY

This course consists of lectures, laboratory exercises and recitations. The usual college course is followed, and the subject developed in a logical manner with standard textbooks of college grade as a basis. The lectures are parallel with the laboratory exercises which strive to maintain the connection between theory and observed fact. The recitations afford oppor-

tunities for clearing up what may seem obscure, while the lectures are formal and accompanied by lecture-table demonstrations.

First Year. General Chemistry. — Theoretical and descriptive inorganic chemistry and qualitative analysis.

Four lectures or recitations, and nine hours of laboratory work each week throughout the year.

Second Year. The elements of quantitative analysis, including the theory and practice of gravimetric and volumetric analysis. The year's work will also include organic chemistry to familiarize the student with the typical compounds of carbon and their more important derivatives. Special attention is paid to the preparation for the work in Physiological Chemistry.

Three lectures or recitations, and four hours of laboratory work each week throughout the year.

MODERN LANGUAGES

First Year. The courses in French and German are given in order to enable the student ultimately to acquaint himself with the literature of medicine and to read scientific publications in French and German. Elementary, intermediate and advanced subjects are offered in each department, so that the character of the work may be adapted to the qualifications of the individual student. Grammatical principles are reviewed and literal translations with a clear understanding of the fundamental meaning of words are insisted upon.

Three recitations each week throughout the year.

ENGLISH

First Year. The purpose of the English course is first, to impress on the student the importance of good English; second, to train in exact thinking; third, to develop the power of expression; and fourth, to encourage the habit of reading. The forms of discourse are taken up in weekly lectures, and errors are discussed at monthly conferences held with individual students. Papers written outside the class are required weekly, and papers written in class are required from time to time.

Three recitations each week throughout the year.

MATHEMATICS

First Year. This course is intended to review the mathematics of the secondary school with special reference to the medical profession.

The elements of accounting as applied to the keeping of office records will comprise a portion of the prescribed work.

Three recitations each week throughout the first semester.

ELEMENTARY ECONOMICS

First Year. This course is designed especially for students preparing for the study of medicine. It aims at a comprehensive study of the elements of economics with special reference to present day economic and social problems.

Three recitations each week throughout the second semester.

PHYSICS

Second Year. The subjects of mechanics, sound, heat, light, and electricity, are covered. As much as possible of the mathematical part of physics is omitted; but special attention is given to topics peculiarly important to the student of medicine. Among these may be mentioned: capillarity, osmosis, diffusion, high frequency electric currents, X-rays, and radio-activity.

The laboratory work is intended to familiarize the student with simple physical apparatus, and the fundamental laws of physics. Written reports upon this work are required. The recitations are devoted to extending this study; and offer an opportunity for frequent short examinations. The lectures treat principally of extensions of the subject which cannot be conveniently studied in the laboratory.

The point of view of the medical student is kept prominently in mind throughout the course.

Three lectures or recitations and four hours of laboratory work throughout the year.

LITERATURE

Second Year. Historical outline of the development of literature and reading of representative masterpieces. The literature and history of medicine will comprise a portion of the subject.

Three recitations each week throughout the year.

PSYCHOLOGY

Second Year. An elementary course with normal human psychology as the principal subject: Abnormal and supernormal phenomena will be studied in so far as they shed light on normal psychology.

Three lectures or recitations each week during the first semester.

HISTORY AND CIVICS

Second Year. Topics in the history of the United States with special reference to the history of the last fifty years and to contemporary problems.

State and community government with opportunities for direct observation.

Three lectures or recitations each week during the second semester.

GRADUATION

Students graduating from the Two-Year Pre-Medical Course are admitted to the Medical School without further examinations.

Before a certificate of graduation can be given, students must fulfill the following requirements:

They must have paid all fees.

They must have passed all the required examinations, and have performed the required amount of laboratory work.

They must have completed the full course of pre-medical study.

The Faculty must be satisfied of the good moral character of the student.

The College reserves the right to accept and retain students as it may elect. Regulations are subject to change without notice.

PART II

THE MEDICAL AND DENTAL SCHOOLS

416 Huntington Avenue, Boston, Mass.

TUFTS COLLEGE MEDICAL SCHOOL

(Giving the degree of M.D.)

TUFTS COLLEGE DENTAL SCHOOL

(Giving the degree of D.M.D.)

Calendar — 1918

JANUARY							MAY							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5			1	2	3	4		1	2	3	4	5	6	7
6	7	8	9	10	11	12	5	6	7	8	9	10	11	8	9	10	11	12	13	14
13	14	15	16	17	18	19	12	13	14	15	16	17	18	15	16	17	18	19	20	21
20	21	22	23	24	25	26	19	20	21	22	23	24	25	22	23	24	25	26	27	28
27	28	29	30	31			26	27	28	29	30	31		29	30					
FEBRUARY							JUNE							OCTOBER						
					1	2							1			1	2	3	4	5
3	4	5	6	7	8	9	2	3	4	5	6	7	8	6	7	8	9	10	11	12
10	11	12	13	14	15	16	9	10	11	12	13	14	15	13	14	15	16	17	18	19
17	18	19	20	21	22	23	16	17	18	19	20	21	22	20	21	22	23	24	25	26
24	25	26	27	28			23	24	25	26	27	28	29	27	28	29	30	31		
							30													
MARCH							JULY							NOVEMBER						
					1	2		1	2	3	4	5	6						1	2
3	4	5	6	7	8	9	7	8	9	10	11	12	13	3	4	5	6	7	8	9
10	11	12	13	14	15	16	14	15	16	17	18	19	20	10	11	12	13	14	15	16
17	18	19	20	21	22	23	21	22	23	24	25	26	27	17	18	19	20	21	22	23
24	25	26	27	28	29	30	28	29	30	31				24	25	26	27	28	29	30
31																				
APRIL							AUGUST							DECEMBER						
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30					25	26	27	28	29	30	31	29	30	31				

Calendar of the Medical and Dental Schools

1918

- JAN. 1. Christmas recess ends, Tuesday Evening.
FEB. 4. Second half-year begins, Monday, 9 A.M.
FEB. 22. Washington's Birthday. Exercises are suspended.
APRIL 17. Spring recess begins, Wednesday Evening.
APRIL 21. Spring recess ends, Sunday Evening.
MAY 30. Memorial Day. Exercises are suspended.
JUNE 16. Baccalaureate Sermon, Sunday, 4 P.M. (Goddard Chapel).
JUNE 17. Annual Commencement, Monday.
JUNE 17-22. Entrance Examinations conducted by the College Entrance Examination Board. Application blanks may be obtained from the Secretary of the Board, 431 West 117th St., New York, N. Y.
JUNE 20. Registration begins.
-

- SEPT. 16. Examinations for Advanced Standing and for the removal of Conditions.
SEPT. 16, 17, 18. Examinations for entrance given at Ballou Hall, Tufts College.
SEPT. 23. Medical School year begins Monday. Registration closes, 5 P.M.
SEPT. 26. Dental School year begins, Thursday. Registration closes, 5 P.M.
OCT. 12. Columbus Day. Exercises are suspended.
NOV. 27. Thanksgiving recess begins, Wednesday Evening.
DEC. 1. Thanksgiving recess ends, Sunday Evening.
DEC. 21. Christmas recess begins, Saturday, 1 P.M.

1919

- JAN. 1. Christmas recess ends, Wednesday Evening.
FEB. 3. Second half-year begins, Monday, 9 A.M.
FEB. 22. Washington's Birthday. Exercises are suspended.
APRIL 16. Spring recess begins, Wednesday Evening.
APRIL 20. Spring recess ends, Sunday Evening.
MAY 30. Memorial Day. Exercises are suspended.
JUNE 15. Baccalaureate Sermon, Sunday, 4 P.M. (Goddard Chapel).
JUNE 16. Annual Commencement, Monday.

Tufts College Medical and Dental Schools

The Tufts College Medical School was established in Boston in 1893 and the Dental School, formerly the Boston Dental College became a part of Tufts College in 1899. Both are administered by the Trustees of Tufts College and are co-educational, women and men being admitted upon the same terms.

THE MEDICAL AND DENTAL BUILDINGS

416 Huntington Avenue, Boston, Mass.

The buildings — at which all exercises are conducted except those given to upper classmen at the hospitals — are at present two in number.

The main building is equipped solely for the teaching of Medicine and Dentistry and subjects connected therewith. There are seven lecture rooms. On the second, third, and fourth floors, extensive laboratories are provided which give excellent facilities for teaching. Private research laboratories are connected with each general laboratory.

The increase in enrollment has necessitated the erection of a second building, provided with laboratories, recitation rooms, and a lecture hall, and designed for the use of the Medical and Dental, and the Pre-Medical classes.

The buildings may be reached by Huntington Avenue Subway cars, except those on the Roxbury and Dorchester lines.

MEDICAL CLINICAL FACILITIES

Boston, the largest city in New England, offers unusual facilities to the student of medicine. The amphitheatres of the Boston City Hospital, the Massachusetts General Hospital, and the Massachusetts Charitable Eye and Ear Infirmary and other hospitals are open to students, and opportunity is thus afforded for witnessing a great variety of medical and surgical cases.

Clinics available to medical students are held at the institutions given in the following list, and opportunities are also offered at various private hospitals.

Boston City Hospital	818 Harrison Ave., Boston
Boston Consumptive Hospital O. P. D.	13 Dillaway St., Boston
Boston Consumptive Hospital	Mattapan
Boston Dispensary	Corner of Bennett and Ash Sts., Boston
Boston State Hospital (Psychopathic Dept.)	74 Fenwood Rd., Boston
Carney Hospital	Old Harbor St., South Boston
Jewish Women's Hospital Assoc. (Maternity Clinic)	34 Chambers St., Boston
Mass. Charitable Eye and Ear Infirmary	233 Charles St., Boston
Massachusetts General Hospital	Blossom St., Boston
Massachusetts School for Feeble-minded	Waverley, Mass.
North Reading State Sanatorium	North Wilmington
Robert Brigham Hospital	Parker Hill Ave., Boston

DENTAL CLINICAL FACILITIES

The clinical advantages offered dental students are exceptional. In addition to the work in the School Infirmary, students are assigned to the dental clinics at the Boston Dispensary (Dr. C. M. Proctor), the Waverley Hospital (Dr. A. G. Richburg) and the Forsyth Dental Infirmary for Children (Dr. L. B. Willey). In these institutions students receive practical instruction under the direction of officers of the School.

Further opportunities for instruction are furnished by the clinics and operations at the large hospitals of the city. Numerous operations upon the face and oral cavity are performed before students, and all connected with the School are urged to avail themselves of the facilities thus offered.

LIBRARIES

The students of these Schools have free access to the Library of Tufts College, and to the Boston Public Library.

EXPENSES

A fee of *five dollars* is paid at the time of registration and is non-returnable.

A tuition fee of *one hundred and fifty dollars* is payable on the opening day.

If desired, the tuition may be paid in two instalments, in which case an additional charge of five dollars is made, and the fee is then paid as follows:

First payment:—*Eighty dollars*, payable on or before the opening day.

Second payment:—*Seventy-five dollars*, payable on or before January 15.

No student will be admitted to the exercises of the first half-year who has not first paid his registration fee and at least the "First Payment," and no student will be admitted to the exercises of the second half-year who has not paid his fees in full.

Before graduation students are charged two dollars to defray the cost of the diploma.

Students leaving either School have no claim for tuition paid.

The student is charged the cost price of anatomical material.

Students are charged five dollars for material regularly consumed in the chemical laboratory. In addition a deposit of two dollars, subject to adjustment, is required to cover the cost of breakage.

Students who have failed in a subject are required to pay a fee of five dollars for re-examination.

In addition to the expenses mentioned above, dental students must provide their own personal equipment (dental engine, tools, instruments, etc.) which may be used in their offices after graduation. The cost of this equipment will be approximately fifty dollars during the first year, one hundred and twenty-five dollars during the second year and sixty dollars during the two remaining years.

The expenses of living in Boston need not exceed those in small cities and villages. Good rooms, including heat and light,

may be obtained in the vicinity of the Schools for \$3.00 a week and upwards.

REGISTRATION

The registration period for the session 1918-19 will begin at the Medical-Dental Building, 416 Huntington Avenue, Boston, on Thursday, June 20, 1918, at 9 A.M. The Medical registration will end Monday, September 23, 1918, at 5 P.M., and the Dental registration will end Thursday, September 26, 1918. Registration is conducted at the Medical-Dental Building only, and must be made in person.

SESSIONS OF THE SCHOOLS

The Medical school-year will begin on Monday, September 23, 1918, and the Dental school-year will begin on Thursday, September 26, 1918. Intermissions and other details are given in the calendar.

TERM EXAMINATIONS

Regular examinations for promotion and for graduation are held at the end of each course.

In all examinations each student must register by signing his name on the registration blank provided by the Secretary for that purpose.

At the end of each session a certificate of his standing for the year is sent by mail to each student. No marks will be sent or credit given to any student who is in arrears with the Bursar.

PROMOTION

Students who have passed the requirements for admission and the examinations of the first-year class are, on recommendation of the Faculty, promoted to the second-year class, and so on class by class.

FAILURES

Students who fail in any course must present themselves for re-examination at the next following regular examination.

Before taking a re-examination, students must make special registration with the Secretary and pay a re-examination fee of five dollars. Students who have failed in their re-examinations must repeat the course and make payment for the course accordingly. If they fail after repeating the course they will forfeit their registration.

GRADUATION

Before the degrees of Doctor of Medicine or Doctor of Dental Medicine can be conferred, the candidates must fulfill the following requirements:

1. They must have paid all charges including the cost of diploma.
2. They must furnish a certificate that they are twenty-one years of age.
3. They must have passed all the required examinations, and have performed the required amount of laboratory and clinical work.
4. They must have satisfied the heads of all departments of their ability to meet satisfactorily the requirements of the profession.
5. They must have attended for four college years some accredited medical or dental college, the last of which must have been at this Medical or Dental School as members of the fourth-year class.

HONORS

Students who have attended either one of these Schools for four years, and have obtained an average of ninety per cent. in their first examinations, shall be eligible to "*summa cum laude*," and those who have obtained an average of eighty per cent. shall be eligible to "*cum laude*."

Students who have failed in any examination are not eligible for honors.

COMMENCEMENT

Degrees are publicly conferred on Commencement Day at Goddard Chapel, Tufts College.

The College reserves the right to accept and retain students as it may elect. Requirements and regulations are subject to change without notice.

Admission Requirements for the Medical and Dental Schools

THE MEDICAL SCHOOL

The following requirements for admission to the Medical Course leading to the degree of Doctor of Medicine are in accordance with the rules which, as adopted by the Association of American Medical Colleges, control admission to medical schools of "Class A."

Admission to the first-year class may be obtained in two ways. In either case the applicant should file an application blank.

1. For Those Having Collegiate Degrees

The candidate for admission must present satisfactory evidence that he is a graduate of an accredited college or university and has received the bachelor's degree. He must have had courses in Physics, Biology, Chemistry, and a Modern Language, each sufficient in amount to equal at least that required by the Council of Medical Education of the American Medical Association, and of the Regents of the University of the State of New York.

After January 1, 1918, the Medical School must require for admission not less than the equivalent of two years of instruc-

tion in a college of liberal arts and science after the completion of an approved four-year high school course and eight years of elementary preparation. The two years of college instruction must be given during at least 15 week hours each, and must include Chemistry 3, Physics 3, Biology 3, English 3, and a Modern Language 3 (French, German, Spanish, or Italian).

A student entering Tufts College as a freshman may combine his collegiate and medical school courses so that in seven years he can take both his bachelor's and his doctor's degrees.

Work for the first three years is pursued in the School of Liberal Arts, and for the remaining four in the Medical School. At the end of the fourth year the bachelor's degree may be conferred, and at the end of the seventh year the degree of Doctor of Medicine.

2. For Those Without Collegiate Degrees.

The candidate for admission in September, 1918, must present evidence that he has completed a Pre-Medical Course of at least two years' work in an accredited college or university, including Physics, Chemistry, Biology, and German or French courses.

THE DENTAL SCHOOL

The requirements for admission to the course leading to the degree of Doctor of Dental Medicine are governed by the National Association of Dental Faculties of which the Tufts College Dental School is a member.

Admission to the first-year class may be obtained in one of two ways:

(1) *By presenting a diploma and a transcript of record from an accredited high school or academy:*

The transcript of record must show adequate preparation in certain subjects falling in two groups, known respectively as the Required and the Elective Group. In these groups the term "unit" represents a year's study in the specified subjects and is the equivalent of approximately a quarter of a full year's work.

Required Group, 8 Units

	Units
English	3
Foreign Language (elementary)	2
History	1
Algebra A1	1
Plane Geometry	1

No subject offered in the Required Group can be counted in the Elective Group.

In addition to the eight units of the Required Group, candidates for admission must also present subjects chosen from the following Elective Group equivalent to seven units.

Elective Group, 7 Units

	Units		Units
Greek	2 or 3	Freehand Drawing	$\frac{1}{2}$ *
Latin	2, 3, or 4	Shop Work	$\frac{1}{2}$ to 2*
French	2 or 3	Musical Appreciation	$\frac{1}{2}$
German	2 or 3	Music (Harmony)	$\frac{1}{2}$
Chemistry	1	Algebra A2	1
Physics	1	Advanced Algebra	$\frac{1}{2}$
Biology	1	Solid Geometry	$\frac{1}{2}$
Botany	1	Trigonometry	$\frac{1}{2}$
Zoology	1	English History	1
Geology or Geography	1	Ancient History	1
Mechanical Drawing	1*	American History and Civil Government	1

(2) By passing examinations:

Students who desire to satisfy the above requirements may take the examinations either in June or in September, or a part in June and a part in September.

The June examinations, arranged by the College Entrance Examination Board, will be given June 17 to 22, 1918, at Robinson Hall, Tufts College, Mass., and elsewhere, as announced by the Board. All applications for June examinations must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., and the student intending to take the Board examinations should make his plans known to the Secretary at an early date, if possible prior to May 1, in order to comply with all of the conditions imposed by the Board.

The September examinations are arranged by Tufts College and will be given September 16 to 18, 1918, at Ballou Hall,

*A total of not more than two units in three subjects.

Tufts College, Mass. On the day of their first examination applicants for the September examinations are required to register at the office of the Registrar at Tufts College and pay an examination fee of \$5.00.

The schedule for examination dates for September, 1918, is as follows:

- SEPT.** 16. Elementary, Intermediate, and Advanced French, 9 to 11; Elementary, Intermediate, and Advanced German, 11 to 1; Elementary and Advanced Greek, Advanced Algebra and Trigonometry, 2 to 5; *American History, 2 to 4; English History, 4 to 6.
- SEPT.** 17. Algebra, 9 to 10.30; English, 10.30 to 12.30; Plane Geometry, 2 to 4; Physics, 4 to 5; Drawing, 4 to 6.
- SEPT.** 18. Elementary, Intermediate, and Advanced Latin, 9 to 12; Solid Geometry, 9 to 11; Botany, Zoology, Biology, Geology and Economics, 11 to 1; Ancient History, 2 to 4; Chemistry, 4 to 5.

Although the requirements are well-known to the principals of all secondary schools, a detailed statement will be sent on application.

ADMISSION TO ADVANCED STANDING AND REMOVAL OF CONDITIONS

Students who have taken courses in other accredited dental schools may be admitted to advanced classes upon presenting satisfactory credentials or by examination.

Examinations for admission to advanced standing and for the removal of conditions are given at the Medical-Dental Building, on a schedule arranged by the Secretary, and begin on Monday, September 16, 1918.

Students from other colleges intending to take examinations for admission to advanced standing and those who desire to remove conditions are required to notify the Secretary on or before Saturday, September 14, 1918.

Each student must register by signing his name on the registration blank provided for the purpose at the time of the examination. If a student fails to register in this manner, he will receive no credit for his examination.

* Persons desiring to be examined in Medieval or Modern History are requested to confer with the examiner.

MEDICAL SCHOOL

CHARLES FAIRBANK PAINTER, A.B., M.D., Dean
FRANK GEORGE WHEATLEY, A.M., M.D., Vice-Dean
FRANK EUGENE HASKINS, Ph.G., M.D., Secretary

Standing Committees

The Dean, Vice-Dean and the Secretary of the Medical School are members of all standing committees, *ex officio*.

ADMINISTRATION. — The President, Drs. Lahey, and Leary.

PROMOTIONS. — Drs. Ames, Bates, Friedman, Lahey, and Leary.

Officers of Instruction and Government of The Medical School

The post-office address is Boston, Mass., unless otherwise indicated.

Administrative Officers

- HERMON CAREY BUMPUS, PH.D., SC.D., LL.D.
PRESIDENT 8 Professors Row, Tufts College, Mass.
- CHARLES FAIRBANK PAINTER, A.B., M.D.
Dean 522 Commonwealth Ave.
- FRANK GEORGE WHEATLEY, A.M., M.D. . . . 174 Adams St.,
Vice-Dean N. Abington
- FRANK EUGENE HASKINS, PH.G., M.D. . . 204 Huntington Ave.
Secretary of the Faculty

Professors Emeriti

- FREDERIC MELANCTHON BRIGGS, A.B., M.D.
Surgery 536 Commonwealth Ave.
- HENRY BECKLES CHANDLER, C.M., M.D. . . . 34½ Beacon St.
Ophthalmology
- JOHN LEWIS HILDRETH, A.B., M.D., LL.D. . . 5 Fletcher St.,
Clinical Medicine Winchester
- MORTON PRINCE, A.B., M.D., LL.D. 458 Beacon St.
Neurology
- GEORGE HAMLIN WASHBURN, A.B., M.D. . 377 Marlborough St.
Obstetrics
- HAROLD WILLIAMS, A.B., M.D., LL.D. 528 Beacon St.
Theory and Practice of Medicine

Professors

- JOHN LINCOLN AMES, A.B., M.D. 87 Chestnut St.
Theory and Practice of Medicine

Biological Chemistry

- GEORGE ANDREW BATES, M.S., D.M.D Auburndale
Histology
- WILLIAM ELISHA CHENERY, A.B., M.D. . . 222 Huntington Ave.
Laryngology
- ELWOOD TRACY EASTON, M.D. 209 Newbury St.
Ophthalmology
- WILLIAM ROBIE PATTEN EMERSON, A.B., M.D. 657 Boylston St.
Children's Diseases
- LEO VICTOR FRIEDMAN, A.B., M.D. 425 Marlborough St.
Obstetrics
- GEORGE WARTON KAAH, M.D. 419 Boylston St.
Clinical Gynecology
- FRANK HOWARD LAHEY, M.D. 638 Beacon St
Clinical Surgery
- EDWARD BINNEY LANE, A.B., M.D. 419 Boylston St.
Mental Diseases
- TIMOTHY LEARY, A.M., M.D. . . . 44 Burroughs St., Jamaica Plain
Pathology, Bacteriology and Medical Jurisprudence
- EDWARD NORTON LIBBY, A.B., M.D. 638 Beacon St.
Clinical Medicine
- EDWARD OSGOOD OTIS, A.B., M.D. 381 Beacon St.
Pulmonary Diseases and Climatology
- CHARLES FAIRBANK PAINTER, A.B., M.D. 522 Commonwealth Ave,
Orthopedic Surgery
- EDWARD MARWICK PLUMMER, M.D. . 5 Adams St., Charlestown
Otology
- ANDREW HOWARD RYAN, M.D. . . 7 Netherlands Rd., Brookline
Physiology
- WALTER EDWARD SULLIVAN, A.M., PH.D. . . 11 Burnham St.,
Anatomy W. Somerville
- FRANK GEORGE WHEATLEY, A.M., M.D. . . . 174 Adams St.
Pharmacology N. Abington
- CHARLES MELVILLE WHITNEY, M.D. . 386 Commonwealth Ave.
Genito-Urinary Diseases

Associate Professors

- ARTHUR LAMBERT CHUTE, M.D. 350 Marlborough St.
Genito-Urinary Surgery
- WALTER ELMORE FERNALD, M.D. Waverley
Mental Diseases
- ALLEN GREENWOOD, M.D. 101 Newbury St.
Ophthalmology
- EDGAR MILLER HOLMES, M.D. 531 Beacon St.
Otology
- WALTER FREEMAN NOLEN, M.D. 535 Beacon St.
Anatomy
- STEPHEN RUSHMORE, A.B., M.D. 520 Beacon St.
Gynecology

Assistant Professors

- ARTHUR EVERETT AUSTIN, A.M., M.D. . . 110 Marlborough St.
Clinical Medicine, Lecturer in Gastro-Intestinal Diseases
 On war leave
- ELMER WALTER BARRON, A.B., M.D. . . 520 Commonwealth Ave.
Children's Diseases
- ARIAL WELLINGTON GEORGE, M.D. 43 Bay State Rd.
Röntgenology. On war leave
- FRANK EUGENE HASKINS, PH.G., M.D. . . 204 Huntington Ave.
Pharmacology
- ARTHUR RONALD KIMPTON, M.D. 66 Bay State Road
Surgery
- CHARLES DAVISON KNOWLTON, M.D. . 574 Warren St., Roxbury
Theory and Practice of Medicine
- OLGA CUSHING LEARY, M.D. 44 Burroughs St., Jamaica Plain
Pathology and Bacteriology
- FRANCIS PATRICK MCCARTHY, M.D. 394 Marlboro St.
Pathology and Bacteriology
- FRANCIS HENRY MCCRUDDEN, B.S., M.D. . .
Applied Therapeutics Robert Brigham Hospital
- ABRAHAM MYERSON, M.D. 520 Beacon St.
Neurology

- THOMAS JAMES O'BRIEN, PH.G., M.D. 483 Beacon St.
Clinical Medicine
- ALONZO KINGMAN PAINE, M.D. 366 Commonwealth Ave.
Obstetrics
- CADIS PHIPPS, A.B., M.D. 421 Marlboro St.
Clinical Medicine
- MARK HOMER ROGERS, B.A., M.D. 483 Beacon St.
Orthopedic Surgery
- LOUIS MAHLON SPEAR, A.B., M.D. 483 Beacon St.
Theory and Practice of Medicine
- ALBERT WARREN STEARNS, M.D. 520 Commonwealth Ave.
Neurology. On war leave
- TOWNSEND WILLIAM THORNDIKE, M.D. 20 Newbury St.
Dermatology
- FRANK PERCIVAL WILLIAMS, M.D. 419 Boylston St.
Surgery. On war leave

Lecturers

- LOUIS ARKIN, B.S., M.D. 366 Commonwealth Ave.
Laryngology
- CARL HERMANN BUCHOLZ, M.D. 139 Beacon St.
Applied Therapeutics
- CLAIR ELSMERE TURNER, A.B., A.M. 7 Ware St., Cambridge
Hygiene
- FREDERICK FINCH STRONG, M.D. 178 Huntington Ave.
Electro-Therapeutics

Instructors

- LETITIA DOUGLAS ADAMS, M.D. 175 Dartmouth St.
Histology
- JAMES ANTHONY BRADLEY, A.B. 35 Pearl St., Medford
Chemistry
- AUSTIN BRANT, A.B., M.D. 483 Beacon St.
Obstetrics
- JOHN GEORGE BRESLIN, A.B., M.D. 514 Commonwealth Ave.
Surgery
- ELMOND ARTHUR BURNHAM, A.B., M.D. 154 Huntington Ave.
Pulmonary Diseases and Climatology

- ALBERT WILLIAM COLWILL, PH.M.D., PH.C., M.D.
Pharmacology 158 Huntington Ave.
- WILLIAM PEARCE COUES, M.D., 31 Massachusetts Ave.
Surgery
- ARTHUR HALLAM CROSBIE, A.B., M.D. . . . 260 Clarendon St.
Genito-Urinary Surgery
- HAROLD WARD DANA, A.B., M.D. 483 Beacon St.
Clinical Medicine
- CHARLES BALFOUR DARLING, A.B., M.D. . . . 50 Townsend St.,
Clinical Gynecology Roxbury
- WILLIAM FRANCIS DOLAN, A.B., M.D. . . . 28 Adams St., Quincy
Surgery
- FRANK HERBERT DUNBAR, M.D. . . 86 Rumford Ave., Mansfield
Pathology and Bacteriology
- JOHN EDWARD DWYER, Jr., M.D. . . . 47 Inman St., Cambridge
Pathology and Bacteriology
- WILFRED GOLDWIN FUNNELL, M.D. . . . 156 Huntington Ave.
Pharmacology
- LOUIS ADOLORE OLIVER GODDU, PH.G., M.D. . 407 Marlboro St.
Orthopedic Surgery
- WILLIAM HERBERT GRANT, M.D. 543 Boylston St.
Clinical Gynecology
- JOSEPH EDWARD HALLISEY, M.D. . 691 Columbia Rd., Dorchester
Clinical Medicine
- JAMES JOSEPH HEPBURN, A.B., M.D. . . 536 Commonwealth Ave.
Anatomy
Assistant in Surgery
- ARTHUR PERCY JANES, M.D. 27 Hancock St.
Genito-Urinary Diseases
- FRANCIS JOSEPH KELEHER, A.M., M.D. . 24 Tremont St., Brighton
Medical Jurisprudence
- BRADFORD KENT, M.D. 798 Blue Hill Ave., Dorchester
Pulmonary Diseases and Climatology
- FLORENCE LYNDON MEREDITH, M.D. . . 3 Otis St., Watertown
Surgery
- TIMOTHY JOSEPH MURPHY, A.M., M.D. . 372 Dudley St., Roxbury
Pulmonary Diseases and Climatology

- FREDERICK WILLIAM O'BRIEN, M.D. . 536 Commonwealth Ave.
Röntgenology
- CHARLES LEONARD OVERLANDER, PH.C., PH.D., M.D.
Biological Chemistry 520 Beacon St.
Lecturer in Parasitology
- ARTHUR CUSHING PEARCE, M.D. 543 Boylston St.
Genito-Urinary Diseases
- EDWIN HEMPHILL PLACE, M.D. 745 Massachusetts Ave.
Children's Diseases
- FREDERICK REIS, M.D. 174 Norfolk St., Dorchester
Biological Chemistry and Toxicology
- CHARLES ALLEN RILEY, M.D. 1267 Commonwealth Ave.
Pulmonary Diseases and Climatology
- HOLLIS LESTER SEAVEY, M.D. 1879 Massachusetts Ave.
Clinical Medicine
- RUSSELL BRADFORD SPRAGUE, M.D. . 522 Commonwealth Ave.
Histology
- FREDERICK WINSLOW STETSON, A.B., M.D. . 504 Warren St.,
Clinical Medicine Roxbury
- PERCY FORD SWINDLE, B.S., PH.D. 23 Hemenway St.
Physiology
- EDWARD ELIPHALET THORPE, M.D. 711 Boylston St.
Biological Chemistry and Toxicology
- EDWARD LAMBERT TWOMBLY, A.B., M.D. 416 Marlborough St.
Clinical Gynecology
- HENRY FOWLER RANSFORD WATTS, M.D. . 6 Monadnock St.,
Theory and Practice of Medicine Dorchester
- NATHANIEL KNIGHT WOOD, A.B., M.D. 520 Beacon St.
Pulmonary Diseases and Climatology

Teaching Assistants

- WILLISTON WRIGHT BARKER, A.B., M.D. . . . 4 Lyndhurst St.,
Children's Diseases Dorchester
- ROLAND AUGUSTUS BEHRMAN, M.D. 147 Belgrade Ave.,
Assistant in Physical Diagnosis. On war leave Roslindale
- MAURICE GEORGE BERLIN, M.D. 3 Esmond St., Dorchester
Clinical Medicine
- ROBERT CARLYLE COCHRANE, B.S., M.D. . . . 96 Bay State Rd.
Surgery

- DANA WARREN DRURY M.D. 407 Marlborough St.
Otology
- EDWARD KEITH ELLIS, M.D. 101 Newbury St.
Ophthalmology
- ISADORE ALBERT FINKELSTEIN, M.D. . . 1085 Blue Hill Ave.,
Pulmonary Diseases and Climatology Dorchester
- SOMERS FRASER, A.B., M.D. 514 Commonwealth Ave.
Surgery
- HAROLD GIRARD GIDDINGS, A.B., M.D. 522 Commonwealth Ave.
Surgery
- ANDREW DOHERTY GUTHRIE 407 Salem St., Medford
Pathology and Bacteriology
- DAVID ALOYSIUS HEFFERNAN, M.D. 69 Newbury St.
Laryngology. On war leave
- JOSEPH GORDON HEGARTY, A.B., M.D. . 514 Commonwealth Ave.
Surgery
- RICHARD HENRY HOUGHTON, M.D. . 308 Sumner St., E. Boston
Pulmonary Diseases and Climatology
- FRANCIS THOMAS JANTZEN, A.B., M.D. . 514 Commonwealth Ave.
Surgery
- JOSEPH MICHAEL LYNCH, M.D. 510 Commonwealth Ave.
Clinical Assistant in Department of Medicine
- CHARLES LEVERNE MACGRAY, M.D. . . . 1070 Great Plain Ave.,
Children's Diseases Needham
- ANGUS DANIEL MACLENNAN, M.D. 654 Tremont St.
Children's Diseases
- ALEXANDER STEWART MACMILLAN, M.D. Boston City Hospital
Clinical Medicine
- EDWARD MARTIN, M.D. 217 Warren St., Roxbury
Children's Diseases
Theory and Practice
- HAROLD WINTHROP MARTIN M.D. . . 2 Rockville Park, Roxbury
Physical Diagnosis
- LOUIS EUSEBE PHANEUF, PHM.D., PH.C., M.D. . . 514 Common-
Gynecology wealth Ave.
- WILLIAM EMERSON PREBLE, A.B., M.D. . . 416 Marlborough St.
Clinical Medicine

- GEORGE HALE RYDER, Ph.B., M.D. 583 Beacon St.
Ophthalmology
- WALTER IRENAEUS RYDER, M.D. 483 Beacon St.
Gynecology
- LOUIS IRVING SKIRBALL, M.D. 146 Shirley Ave., Revere
Children's Diseases
- MAX STURNICK, M.D. 12 Columbia Rd., Dorchester
Children's Diseases
- EARLE EDWARD TILTON, M.D. 483 Beacon St.
Laryngology
- OLIVER GOLDSMITH TINKHAM, M.D. 527 Beacon St.
Surgery
- HENRY TOLMAN, JR., M.D. 543 Boylston St.
Laryngology
- GEORGE LOUIS VOGEL, M.D. 90 Exeter St.
Laryngology
- IRVING JAMES WALKER, A.B., M.D. 527 Beacon St.
Surgery
- DAVID LAWRENCE WILLIAMS, A.M., M.D. . 168 Huntington Ave.
Pathology and Bacteriology
- WILLARD LYMAN WRIGHT, M.D. . . . 510 Commonwealth Ave.
Genito-Urinary Surgery

Teaching Fellows

- GEORGE ALFRED FELCH, M.D. 743 Tremont St.
Clinical Medicine
- HARRY BENJAMIN LEVINE, M.D. . . 11 Wolcott St., Dorchester
Clinical Medicine

Clerical and Laboratory Assistants

Anatomy

- FREDERICK DENKNAR GEIST, '20 Brookline
- RAFE NELSON HATT, '18 West Paris, Me.
- CARL ADRIAN RUDOLPH PETERSON, '20 Falmouth
- RUTH WEISMAN, '20 Boston

Pathology and Bacteriology

- MANUEL DELEON 64 Call St., Jamaica Plain
- M. MARGARET FRITZ 219 Albion St., Wakefield
- EMILY B. PEWS 41 Michigan Ave., Somerville

Physiology

ALWIN HENRY CRANZ, B.S.	Brookline
JOHN HUNTER GORDON, A.B.	Washington, D. C.
MAY MILLER	14 Everett Ave., Dorchester
JOHN TROY O'CONNOR	199 Chestnut St., Jamaica Plain

Assistants in the Administrative Office

CLARENCE SHERWOOD CASSIDY	44 Fox St., Dorchester
<i>Representing the Treasurer</i>	
LILLIAN M. TATTAN	77 Belmont St., Somerville
<i>Clerk to the Secretary</i>	
MARION V. WILSON	17 Egerton Rd., Arlington
<i>Stenographer</i>	
ETHEL M. MELVEN	146 Massachusetts Ave.
<i>Stenographer</i>	
GEORGE E. TOMLINSON	204 Huntington Ave.
<i>Store-Keeper</i>	

Departments of Instruction in the Medical School

It is the plan of this course, which requires four years of residence, to correlate the classroom work of the first two years with the practical hospital experience of the third and fourth years, leading thus to a well-rounded medical and surgical training. The morning work of the fourth year is largely clinical, the students being assigned in sections for practical work in Hospital and Out-Patient Clinics.

ANATOMY

Dr. SULLIVAN

Dr. NOLEN

Dr. HEPBURN

The anatomical laboratory is equipped with charts, models, and regional dissections for demonstrations. A departmental library is maintained for the students.

Descriptive Anatomy. This is a laboratory course on the cadaver. Each student dissects a lateral half of the body. Lectures, demonstrations, and recitations supplement the laboratory work.

Applied Anatomy. It is planned to give a course which will correlate the descriptive anatomy with clinical work. This course will require ten hours per week for one half-year.

Statement of Expenses Incidental to Work in Anatomy

Dissecting material	\$15.00	Laboratory coat	\$1.25
Dissecting instruments	\$5.00-\$8.00	Text-books	\$7.00-\$15.00
Bone deposit	\$5.00		

HISTOLOGY

Dr. BATES

Dr. ADAMS

Dr. SPRAGUE

The course in Histology is carried on during the first semester of the first year. It consists of lectures and laboratory work in microscopic anatomy.

PHYSIOLOGICAL CHEMISTRY

Dr. OVERLANDER

Dr. REIS

Dr. THORPE

Mr. BRADLEY

Physiological Chemistry, the department of Biological Chemistry which deals with the normal body, is considered in the first year. The study of chemistry of pathological conditions is reserved for the second year.

The course covers carbohydrates, proteins, fats and normal milk, saliva, bile, blood, gastric fluid, pancreatic fluid, urine, and feces.

Two lectures, one recitation, and three laboratory periods are held weekly during the second semester.

PHYSIOLOGY

Dr. RYAN

Dr. SWINDLE

Instruction is based, as far as possible, on observations made in laboratory experiments and on demonstrations. The experiments are selected to impress the student with the methods of investigation, and the most important facts in the various divisions of the subject, to wit: muscle, nerve, electro-physiology, circulation, body fluids, respiration, secretion, digestion, absorption, metabolism, excretion, nutrition, internal secretion, central nervous system, and the senses. Physiologic processes not readily observed in the laboratory, the student learns with an insight derived from the practical grounding in experimentation.

In the laboratory, students work in groups of two or three, each group being provided with a desk completely equipped with apparatus, wired for electric power and chronometer current, and supplied with gas and compressed air. Experiments requiring a greater number of students for their manipulation are carried out in groups of eight or nine. Experiments requiring special apparatus are performed in small sections, the work being arranged for rotation of the sections. For such experiments rooms are provided adjacent to the main laboratory. The amount of time devoted to the laboratory work is approximately one hundred and eighty hours. Each student

is required to preserve a record of his experiments and observations, which is bound at the end of the course.

The facts observed in the laboratory experiments and demonstrations are discussed in lectures, quizzes, and theses. In the lectures which cover the subject systematically, free use is made of charts, models and projection lantern. In the thesis prepared by the student on selected subjects, reference is made to original papers to be found in the library.

Weekly oral quizzes are supplemented by written tests given upon completion of some general division of the subject.

Text books: Stewart's Manual of Physiology; Howell's Text Book of Physiology; Starling's Human Physiology.

Elective work: To be arranged. For students desiring special training in this subject.

Research: The facilities of the department are given to properly qualified applicants.

EMBRYOLOGY

• Dr. BATES

The course will cover the science so far as to fit the student with knowledge sufficient for his studies in obstetrics, and such other departments as may deal with embryonic conditions.

PATHOLOGY AND BACTERIOLOGY

Dr. TIMOTHY LEARY

Dr. OLGA LEARY

Dr. MCCARTHY

Dr. DUNBAR

Dr. GUTHRIE

Dr. DWYER

Dr. WILLIAMS

Miss FRITZ

Miss PEWS

The instruction in Pathology consists of lectures, recitations, and demonstrations of fresh and museum specimens, supplemented by experiments and practical laboratory work in pathological histology.

Instruction in autopsy technic is carried out in the amphitheatre of the school and the amphitheatre of the Southern District Mortuary. The supply of fresh material, both surgical

and autopsy, is relatively large and it is usually possible to illustrate most of the common disease processes and many of the rare lesions.

Bacteriology is taught as a companion study to Pathology. As infectious processes are taken up, the bacterial causes are studied in connection with the pathology of the disease which they produce and demonstration is made of experimental lesions produced by the important pathogenic bacteria.

Immunology is taught by lectures, recitations, and practical laboratory work.

BIOLOGICAL CHEMISTRY

Dr. OVERLANDER

Dr. REIS

Dr. THORPE

The course follows that given in the first year, and includes the same subjects as applied to the chemistry of pathological conditions.

Special attention is given to the chemistry and microscopy of urine, feces, blood and gastric contents. These subjects occupy a large part of the laboratory exercises.

Diagnosis of renal, gastric and intestinal diseases from chemical and microscopic findings is fully considered in lectures, recitations and conferences.

PHARMACOLOGY

Dr. WHEATLEY

Dr. HASKINS

Dr. MCCRUDDEN

Dr. BUCHOLZ

Dr. FUNNELL

Dr. COLWILL

Dr. STRONG

This course consists of lectures, recitations, and laboratory exercises.

Special attention is given to the physiological action of drugs and to their therapeutical applications as indicated by clinical experience and by physiological and pathological conditions. The laboratory course is designed to familiarize the student with medicinal preparations. Prescription writing receives careful attention, and both the metric and apothecary systems are used. Recent additions in materia medica receive due consideration.

Applied Therapeutics. Fourth year students, in small sections, are given an opportunity to observe the results of the application of therapeutical agents.

Toxicology. The course in Toxicology is systematic and comprehensive. Students are required to determine the identity of various organic and inorganic poisons in stomach contents, tissues and in food.

In addition to the regular recitations, there are occasional conferences at which cases of poisoning are discussed.

MEDICINE

Dr. AMES

The Department of Medicine receives the students in the second year, after they have completed courses in Anatomy, Physiology and Histology.

Physical Diagnosis. This is an elementary course in the study of physical signs in health and disease, and is the foundation for the study of Clinical Medicine. The course consists of one lecture a week throughout the second year (thirty-two lectures), and fifteen exercises in sections, chiefly on elementary percussion and auscultation.

Dr. SEAVEY, Dr. E. MARTIN,
Dr. H. MARTIN, Dr. LYNCH

Theory and Practice of Medicine. The instruction consists of clinical lectures delivered to the entire class at the hospitals and in small sections at ward visits where diseased conditions are followed in their various stages.

Dr. AMES,
Dr. KNOWLTON, Dr. T. J. O'BRIEN, Dr. PHIPPS, Dr. SPEAR, Dr. WATTS

Diseases of Children. This course is conducted by lectures given at the Medical School and at clinics given at the hospitals.

Dr. EMERSON, Dr. BARRON, Dr. BARKER, Dr. MACGRAY,
Dr. MACLENNAN, Dr. E. MARTIN, Dr. PLACE, Dr. SKIRBALL,
Dr. STURNICK

Medical Diagnosis. The students are shown the methods of clinical investigation, differential diagnosis and the gross pathological lesions.

Dr. LIBBY, Dr. LYNCH

Hematology. A laboratory course in the examining of the blood, involving practical work with the microscope.

Dr. HALLISEY, Dr. BERLIN

Pulmonary Diseases. Pulmonary Diseases are considered as cognate parts of internal medicine and assigned their proper proportion of time for didactic and clinical instruction by the department.

Dr. OTIS, Dr. BURNHAM, Dr. FINKELSTEIN,
Dr. HOUGHTON, Dr. KENT, Dr. MURPHY, Dr. RILEY, Dr. WOOD

Neurology and Neuropathology. The instruction in these courses consists of lectures followed by clinical work at the Boston Dispensary and Psychopathic Hospital.

Lectures in Neuropathology are illustrated by slides and laboratory work and clinical collateral shown by cases in above mentioned hospitals.

Dr. STEARNS, Dr. MYERSON

Hygiene and Sanitation. Hygiene and Sanitation are conducted during the first half of the third year.

Mr. TURNER

Genito-Urinary Diseases. This course consists of lectures supplemented by clinical work at the Boston Dispensary and Boston City Hospital.

Dr. WHITNEY, Dr. CHUTE, Dr. CROSBIE,
Dr. JANES, Dr. PEARCE, Dr. WRIGHT

Clinical Medicine. Clinical Medicine is continued in the fourth year in a practical manner by the appointment of students as clinical assistants in the out-patient departments and in the wards of hospitals.

Dr. AMES, Dr. LIBBY, Dr. AUSTIN, Dr. PHIPPS,
Dr. BERLIN, Dr. DANA, Dr. FELCH, Dr. LEVINE, Dr. MACMILLAN,
Dr. T. J. O'BRIEN, Dr. PREBLE, Dr. STETSON

Medical Jurisprudence. This course, which consists of a series of lectures, extends throughout the fourth year.

Dr. KELEHER

Rectal Diseases. This course is introduced by a series of lectures and is continued by clinical demonstrations at the Boston Dispensary.

Dr. F. P. WILLIAMS

Mental Diseases. The College has exceptional facilities for instruction in this subject. A course of lectures is given and clinical opportunities are available at several of the larger hospitals.

Dr. LANE, Dr. FERNALD

SURGERY

Dr. LAHEY

Bandaging and Surgical Technique. The Department of Surgery first comes in contact with the students in the second year after they have had their descriptive Anatomy and Dissection, Physiology and Histology. In small sections at the several surgical out-patient departments, they are taught the principles of asepsis and antisepsis. At operations, they are taught something of the technique of minor surgery and receive practical instruction in the art of applying surgical dressings and in bandaging. Correlated with the second year of surgical instruction it is planned to give a course in Applied Anatomy.

Dr. JANTZEN, Dr. GIDDINGS, Dr. HEPBURN

Surgery. In the third year instruction by didactic and clinical lectures begins. The former are given at the Medical School and the latter at the hospitals. The clinical work is conducted chiefly by class demonstrations upon surgical patients and mainly with a view to diagnosis and treatment. This work is supplemented by ward visits in small groups where the results of treatment are demonstrated and post-operative care is illustrated. Correlated with this clinical instruction there is a laboratory course in Surgical Pathology in which the pathological changes of the principal surgical lesions are demonstrated and the repair processes incident to the recovery from surgical affections are followed.

Dr. LAHEY, Dr. KIMPTON, Dr. BRESLIN, Dr. COCHRANE, Dr. COUES,
Dr. DOLAN, Dr. FRASER, Dr. HEGARTY, Dr. TINKHAM, Dr. WALKER

Clinical Surgery. In the fourth year, clinical lectures are continued. Fifteen lectures on special surgical subjects are given by men not connected with the Faculty but particularly qualified to speak on these subjects. Practical out-patient work

is required of each student for a month in minor surgery, in Genito-Urinary Surgery and in Orthopedics respectively.

Dr. LAHEY, Dr. KIMPTON, Dr. MEREDITH

Operative Surgery and Surgical Anatomy. The course in operative surgery upon the cadaver is essentially a course in surgical anatomy and in practical operative surgery.

Opportunity to witness major surgical operations in the large hospitals is open to the students on public operating days.

Dr. KIMPTON, Dr. COUES, Dr. GIDDINGS, Dr. HEPBURN, Dr. JANTZEN,
Dr. WALKER

Orthopedic Surgery. The course in Orthopedic Surgery consists of didactic and clinical lectures extending throughout the year, and of clinics for small sections where the student is familiarized by actual work with the technique of the various mechanical and therapeutic measures employed in the practice of Orthopedic Surgery.

The clinical work will be carried on at the Massachusetts General Hospital and the Robert Brigham Hospital.

Dr. PAINTER, Dr. ROGERS, Dr. GODDU

GYNECOLOGY AND OBSTETRICS

The work of the two departments is administered as a unit.

Gynecology. During the third year, second semester, there are three exercises (two lectures and one quiz) each week in Gynecology.

Dr. RUSHMORE

Obstetrics. The instruction in Obstetrics consists of lectures, recitations, and clinical teaching. Each student is given the opportunity to serve as externe in the Obstetric Out-Patient department, where he personally delivers the six cases required for the degree. He is required to care for these cases during convalescence and to write a detailed report.

For the women students, arrangements have been made with the New England Hospital for Women and Children whereby each student attends her required number of confinements.

Operative Obstetrics. All the important obstetric operations and operative manœuvres are demonstrated to the class in small

sections, and each student performs these operations on models under the guidance of the instructor. This individual teaching constitutes a highly valuable and practical experience.

Dr. FRIEDMAN, Dr. PAINE, Dr. BRANT

Clinical Gynecology. Students in small sections, throughout the fourth year, are given instruction in the making of examinations, and in the methods of diagnosis and treatment. Clinics are held at the Dispensary for Women and at the Boston Dispensary.

Adequate provision is made for students to witness plastic operations and major pelvic surgery at the Carney Hospital.

Weekly class conferences are held during the second semester.

Dr. KAAH, Dr. RUSHMORE, Dr. DARLING, Dr. W. I. RYDER,

Dr. GRANT, Dr. TWOMBLY, Dr. PHANEUF

OPHTHALMOLOGY

Dr. EASTON

Dr. GREENWOOD

Dr. ELLIS

Dr. G. H. RYDER

The course in ophthalmology is of a practical character being designed to give the general practitioner such knowledge of the subject as is most essential to his practice.

OTOLOGY

Dr. HOLMES

Dr. PLUMMER

Dr. DRURY

Instruction in otology consists of lectures on the anatomy, physiology, and pathology of the ear, and the student must prepare a dissection and model of the human ear. The lectures are illustrated by models, anatomical specimens, bone-corrosion preparations, and by microscopical sections of the organ of hearing.

LARYNGOLOGY

Dr. CHENERY

Dr. ARKIN

Dr. TILTON

Dr. VOGEL

Dr. HEFFERNAN

Dr. TOLMAN, JR.

Third year students are given during the first semester a systematic course of lectures, illustrated by colored diagrams, models, pathological specimens and instruments.

Clinical laryngoscopy and rhinoscopy are required throughout the year. By practical examination the technic of instrumentation is taught as well as general diagnosis and treatment. The student is made familiar with ordinary diseases of the nose and throat and sees the more important operations.

DERMATOLOGY AND SYPHILIS

Dr. THORNDIKE

Instruction on these subjects is both didactic and clinical, and comprises a general survey of cutaneous medicine.

The exercises are held at the Boston City Hospital, where the clinical material is in great abundance.

The course is essentially practical. Special attention is given to the common dermatoses, such as the practising physician is called upon to treat, and stress is laid upon their differential diagnosis. The students come intimately in contact with the cases which are demonstrated at every exercise.

In the instruction on treatment, the newer procedures such as the application of carbon dioxide, the Kromayer light, radium, etc., are adequately demonstrated.

The teaching of syphilis is given in a systematic, detailed manner, supplemented with the exhibition of a large number of cases showing all grades of cutaneous, visceral, osseous, congenital and parasymphilitic lesions.

Included in the instruction on this malady, is the demonstration of the Wassermann reaction and the technic of intramuscular and intra-venous medication.

ROENTGENOLOGY

Dr. GEORGE

Dr. F. W. O'BRIEN

The School is well equipped with apparatus for making X-ray examinations. Lectures are given to the members of the fourth year class and students especially interested are given facilities of exceptional value at hospitals and private offices.

DENTAL SCHOOL

WILLIAM RICE, D.M.D., Dean

FRANK GEORGE WHEATLEY, A.M., M.D., Vice-Dean

FRANK EUGENE HASKINS, PH.G., M.D., Secretary

Standing Committees

The Dean, Vice-Dean and the Secretary of the Dental School are members of all Committees, *ex officio*.

ADMINISTRATION. — The President, Drs. Bates, Farris, Flynn, and H. H. Piper.

PROMOTIONS. — Drs. Farris, Farrington, Sullivan, and Bridge.

Officers of Instruction and Government of The Dental School

Administrative Officers

HERMON CAREY BUMPUS, PH.D., Sc.D., LL.D.	
PRESIDENT	8 Professors Row, Tufts College, Mass.
WILLIAM RICE, D.M.D.	149 Newbury St.
<i>Dean</i>	
FRANK GEORGE WHEATLEY, A.M., M.D.	174 Adams St.,
<i>Vice-Dean</i>	N. Abington
FRANK EUGENE HASKINS, PH.G., M.D.	204 Huntington Ave.
<i>Secretary</i>	

Professors Emeriti

FREDERIC MELANCTHON BRIGGS, A.B., M.D.	536 Common-
<i>Surgery</i>	wealth Ave.
HAROLD WILLIAMS, A.B., M.D., LL.D.	528 Beacon St.
<i>Theory and Practice of Medicine</i>	

Professors

RAYMOND HARMAN ASHLEY, M.A., M.S., PH.D.	8 Ossipee Rd.,
<i>Chemistry</i>	W. Somerville
GEORGE ANDREW BATES, M.S., D.M.D.	Auburndale
<i>Histology and Comparative Anatomy</i>	
WALTER GEORGE BRIDGE, D.M.D.	138 Algonquin Rd., Newton.
<i>Crown and Bridge</i>	
WILLIAM ELISHA CHENERY, A.B., M.D.	222 Huntington Ave.
<i>Laryngology</i>	
FRANK ALEXANDER DELABARRE, A.B., D.D.S., M.D.	
<i>Orthodontia</i>	520 Beacon St.
TIMOTHY LEARY, AM., M.D.	44 Burroughs St., Jamaica Plain
<i>Pathology, Bacteriology</i>	
WILLIAM RICE, D.M.D.	149 Newbury St.
<i>Operative Dentistry</i>	

- ANDREW HOWARD RYAN, M.D. . . 7 Netherlands Rd., Brookline
Physiology
- WALTER EDWARD SULLIVAN, A.M., Ph.D. . . 11 Burnham St.,
Anatomy W. Somerville
- FRANK GEORGE WHEATLEY, A.M., M.D. . . . 174 Adams St.,
Pharmacology N. Abington

Associate Professors

- GEORGE COOK AINSWORTH, D.M.D. 45 Bay State Rd.
Operative Dentistry
- WALTER FREEMAN NOLEN, M.D. 535 Beacon St.
Anatomy

Assistant Professors

- CURTIS WILLIAM FARRINGTON, D.M.D. . 246 Huntington Ave.
Operative Dentistry
- WALTER EMERSON FARRIS, D.D.S. 711 Boylston St.
Prosthetic Dentistry
- WILLIAM MARTIN FLYNN, D.M.D. . . 474A Broadway, S. Boston
Operative Dentistry
- FRANK EUGENE HASKINS, Ph.G., M.D. . . 204 Huntington Ave.
Pharmacology
- WILLIAM PRESTON HOUSTON D.M.D. . . 416 Huntington Ave.
Operative Dentistry
- OLGA CUSHING LEARY, M.D. . . . 44 Burroughs St., Jamaica Plain
Pathology and Bacteriology
- FRANCIS PATRICK MCCARTHY, M.D. 394 Marlboro St.
Pathology and Bacteriology
- ARTHUR LINWOOD MORSE, D.M.D. 520 Beacon St.
Orthodontia
- RICHARD HENRY NORTON, JR., D.M.D. . . . 45 Bay State Rd.
Anesthesia and Oral Surgery
- HENRY HILDRETH PIPER, A.B., D.M.D. 247 Pearl St., Somerville
Operative Dentistry
- CHARLES MARDEN PROCTOR, D.M.D. . . . 419 Boylston St.
Oral Surgery
In charge of Dental Clinic (Boston Dispensary)

Lecturers

- CARL HERMANN BUCHOLZ, M.D. 139 Beacon St.
Applied Therapeutics
- CLAIRE ELSMERE TURNER, A.B., A.M. . . 7 Ware St., Cambridge
Hygiene
- FREDERICK FINCH STRONG, M.D. 178 Huntington Ave.
Electro-Therapeutics

Instructors

- HARRY JEROME BAKER, D.D.S. . . 47½ Columbia Rd., Dorchester
Amalgam Restorations
- JAMES ANTHONY BRADLEY, A.B. 35 Pearl St., Medford
Chemistry
- HAROLD WALTER BROWN, D.M.D. 37 Chatham St., Lynn
Operative Dentistry
- EDWARD VALENTINE BULGER, D.M.D. . . . 513 E. Broadway,
Exodontia So. Boston
- HAROUTIOUN HOVANES CHAKMAKJIAN, A.B. . 5 Blossom St.,
Chemistry Arlington Heights
- ALFRED VALENTINE COGAN, D.M.D. . . 65½ Broadway, S. Boston
Crown and Bridge
- ALBERT WILLIAM COLWILL, PHM. D., PH.C., M.D.
Pharmacology 158 Huntington Ave.
- JAMES HARLOW DALY, D.M.D. 953 Massachusetts Ave., Cambridge
Operative Dentistry
- JAMES J. DUDDY, D.M.D. 15 Cottage St., Brockton
Orthodontia
- FRANK HERBERT DUNBAR, M.D. . . 86 Rumford Ave., Mansfield
Pathology and Bacteriology
- ARTHUR WELLINGTON EWING, D.M.D. 72 Irving St.,
Prosthetic Dentistry. On war leave Framingham
- WILFRED GOLDWIN FUNNELL, M.D. . . . 156 Huntington Ave.
Pharmacology
- CHARLES ROMANDEL GALE, D.M.D. 618 Washington St.,
Prosthetic Dentistry Dorchester
- ROBERT EMMET GETCHEL, D.M.D. . . . 29 Palmer St., Waltham
Operative Dentistry

- JOSEPH CORNELIUS GETHRO, D.M.D. . . . 848 Washington St.,
Operative Dentistry Norwood
- ARTHUR LEWIS GREEELY, A.B. . . . 20 Westcott St., Dorchester
Chemistry
- CHARLES ELLIOTT HATCH, D.M.D. 34 St. Stephen St.
Operative Dentistry and Operative Technics
- WILLIAM HALL HOLDEN 489 Warren St., Roxbury
Roentgenology
- ALFRED LOTHROP HOOKER, D.M.D. 38 Westland Ave.
Prosthetic Dentistry
- WILLIAM HAYES HOYT, D.D.S. . . 28 College Ave., W. Somerville
Exodontia
- GEORGE JOSEPH HUNT 6 Beacon St.
Metal Technic
- JOHN FRANCIS KEARNEY, D.M.D. . 726 East Third St., S. Boston
Crown and Bridge
- FRANCIS JOSEPH KELEHER, A.M., M.D. . 24 Tremont St., Brighton
Dental Jurisprudence
- JOHN VALENTINE KOHLHEPP, D.M.D. . 356 Massachusetts Ave.
Operative Technics
- GEORGE KRAMER, D.M.D. 282 Bryant St., Malden
Prosthetic Dentistry
- HOWARD MITCHELL MARJERISON, D.M.D. . . 149 Newbury St.
Crown and Bridge
- FRANCIS O'MEARA, B.S., M.S. 34 Mapleton St., Brighton
Chemistry
- EDWIN WILLIAM PETERSON, D.M.D. . . . 25 Huntington Ave.
Prosthetic Dentistry
- ABIJAH DAVENPORT PIERCE, D.M.D. 34 St. Stephen St.
Operative Dentistry and Assistant in Orthodontia
- VINCENT JOSEPHINE POLLINA, D.M.D. 261 Hanover St.
Prosthetic Dentistry
- WILLIAM EDWARD REED, D.M.D. . . . 2107 Massachusetts Ave.,
Prosthetic Dentistry Cambridge
- ALFRED GORDON RICHBURG, D.M.D. 739 Boylston St.
Operative Dentistry
In charge of Dental Clinic (Mass. Home for Feeble-Minded)

- CATHERINE FRANCES RONAN, D.M.D. 114 Washington St., Salem
Prosthetic Dentistry
- JOHN CHILTON SCAMMELL, A.B. . . . 91 Centre St., Dorchester
English
- RUSSELL BRADFORD SPRAGUE, M.D. . 522 Commonwealth Ave.
Histology
- FRANCIS HUNTINGTON SWETT, A.M. . 1010 Massachusetts Ave.,
Comparative Anatomy Cambridge
- PERCY FORD SWINDLE, B.S., Ph.D. 23 Hemenway St.,
Physiology
- WILLIAM CHARLES TANNEBRING, D.M.D. . . . 163 Cabot St.
Operative Dentistry Beverly
- WALTER JACOB VOLK, D.M.D. 763 Massachusetts Ave.,
Prosthetic Dentistry Cambridge
- LEON BARTLETT WILLEY, D.M.D. 254 Huntington Ave.
Operative Dentistry
In charge of Dental Clinic (Forsyth Dental Infirmary)
- BRUCE McCLELLAN WOLFF, D.M.D. . . . 161 Allston St., Allston
Prosthetic and Operative Dentistry

Visiting Instructors

- FREDERICK CARROLL ALLEN, D.M.D. . . . 1330 Beacon Street,
Orthodontia Brookline
- WALTER HENRY ARNOLD, D.M.D. 3 Beacon St.
Operative Dentistry
- JOHN WINSLOW BAILEY, D.M.D. 194 Boylston St.
Operative Dentistry
- PETER HOGAN BARTON, D.M.D. 149 Newbury St.
Operative Dentistry
- WALTER JOSEPH BILLINGS, D.M.D. . . . 24 Pennsylvania Ave.,
Operative Dentistry Newton Upper Falls
- WALTER EMERSON BRIGGS, D.M.D. . . 35 So. Main St., Attleboro
Crown and Bridge
- ALPHEUS ROBERTS BROWN, D.M.D. 201 Clarendon St.
Operative Dentistry
- JAMES EDWARD DEVLIN, D.M.D., 30 Surrey St., Brighton
Operative Dentistry and Exodontia (Boston Dispensary)

- NEWTON ALLEN DEWITT, D.M.D. . . . 5 Boylston St., Cambridge
Operative Dentistry
- GILMORE COLBY DICKEY, D.M.D. . Upham's Corner, Dorchester
Operative Dentistry
- CLARK OTTO DOUBLEDAY, D.M.D. 139 Newbury St.
Operative Dentistry
- JOSEPH JAMES DOYLE, D.M.D. . . . 272 Bowdoin St., Dorchester
Operative Dentistry and Exodontia (Boston Dispensary)
- FREDERICK SEARS FAXON, D.M.D. . . . 231 Main St., Brockton
Operative Dentistry
- FREDERICK SAMUEL FOGG, D.M.D. 551 Boylston St.
Operative Dentistry
- JOHN WOOD FORBES, D.M.D. 419 Boylston St.
Operative Dentistry
- FRANK LUTHER GOODSPEED, D.M.D. . 23 Warren Ave., Whitman
Crown and Bridge
- FREDERICK EDWARD GRANT, D.M.D. . . Boyden Sq., E. Dedham
Exodontia
- WALTER HENRY GRANT, D.M.D. 107 Massachusetts Ave.
Operative Dentistry
- CHARLES MORTON HARDON, D.D.S. 179 Newbury St.
Operative Dentistry
- JEPPE CHRISTIAN JEPSEN, D.M.D. 30 Huntington Ave.
Operative Dentistry
- LOUIS KASTON, D.M.D. 276 Tremont St.
Operative Dentistry
- JOSEPH KING KNIGHT, A.B., D.M.D. 100 Boylston St.
Operative Dentistry
- LOUIS LESSER, D.M.D. 24 Michigan Ave., Dorchester
Operative Dentistry. On war leave
- KNUT JOSEF LUTTROPP, D.M.D. 419 Boylston St.
Operative Dentistry
- JOHN RUSSELL MACKINNON, D.M.D. . 543 Talbot Ave., Dorchester
Operative Dentistry
- ALEXANDER SMITH MACLEOD, D.M.D. . 134 Westford St., Lowell
Operative Dentistry

- HAROLD GIFFORD METTERS, D.M.D. . . . 681 Washington St.,
Operative Dentistry Norwood
- ARTHUR LINCOLN MILES, D.M.D. . . 12 Magazine St., Cambridge
Operative Dentistry
- SHELLEY BARNES OSBORNE, D.M.D. . . 186 Commonwealth Ave.
Operative Dentistry
- JAMES RUFUS PIPER, D.M.D. 179 Newbury St.
Operative Dentistry
- FRANCIS WHITE REGAN, D.M.D. 2 Park Square
Operative Dentistry
- HEZE SUMNER RICHARDSON, D.M.D. 462 Boylston St.
Operative Dentistry
- HECTOR GEORGE RISEGARI-GAI, D.M.D. . . . 85 Pleasant St.,
Operative Dentistry Dorchester
- JACOB FREDERICK ROBERTS, D.M.D. . . . 9 Yale St., Medford
Operative Dentistry and Exodontia (Boston Dispensary)
- MAX ROSENTHAL, D.M.D. 2 Park Sq.
Operative Dentistry
- JOSEPH WILLIAM SHAY, D.M.D. . . . 238 Warren St., Roxbury
Operative Dentistry and Exodontia (Boston Dispensary)
- ARTHUR OLIVER ST. ANDRE, D.M.D. . . . 12 Huntington Ave.
Operative Dentistry
- LEILA MAY TAYLOR, D.M.D. 221 Essex St., Salem
Operative Dentistry
- ROSS VROOM, D.M.D. 419 Boylston St.
Operative Dentistry
- GEORGE WILLIAM WHICHELOW, D.M.D. . . . 80 Boylston St.
Operative Dentistry
- BRUCE McCLELLAN WOLFF, D.M.D. . . . 161 Alston St., Alston
Operative Dentistry
- ANNE SKINNER WORTHEN, D.M.D. 739 Boylston St.
Operative Dentistry

Teaching Assistants

- IIVMAN JOSEPH ADELSTEIN, D.M.D. . . . 242 Summer St., Lynn
Prosthetic Dentistry

- FRANCIS JOSEPH GREELEY, D.M.D. . . . 177 Massachusetts Ave.,
Pharmacology Arlington
- REGINALD DIMOCK MARGESON, M.D. 527 Beacon St.
Pathology and Bacteriology
- MARION CECELIA STEVENS, D.M.D. . . . 37 Woburn St., Reading
Prosthetic Dentistry. On war leave
- DAVID LAWRENCE WILLIAMS, A.M., M.D. . 168 Huntington Ave.
Pathology and Bacteriology

Clerical and Laboratory Assistants

Anatomy

- FREDERICK DENKAR GEIST, '20 Brookline
- RALPH NELSON HATT West Paris, Me.
- CARL ADRIAN RUDOLPH PETERSON, '20 Falmouth
- RUTH WEISMAN, '20 Boston

Chemistry

- JOSEPH POFCHER, '18 Roxbury
- HAROLD ELMER SPEAR, '19 St. Albans, Vt.
- BRADFORD JENCKES SPENCER, '19 . . . So. Manchester, Conn.

Operative Dentistry

- KATHERINE M. DEERING Anderson Terrace, Waltham
- GLADYS I. STEVENS 38 Carver St., Cambridge

Crown and Bridge

- ESTHER C. TATTAN 77 Belmont St., Somerville

Pathology and Bacteriology

- MANUEL DELEON 64 Call St., Jamaica Plain
- M. MARGARET FRITZ 219 Albion St., Wakefield
- MAUD M. PEHRSON (Dental) 39 Norway St.
- EMILY B. PEWS 41 Michigan Ave., Somerville

Physiology

- ALWIN HENRY CRANTZ, B.S. Brookline
- JOHN HURTER GORDON, A.B. Washington, D. C.
- MAY MILLER 14 Everett Ave., Dorchester
- JOHN TROY O'CONNOR 199 Chestnut Ave., Jamaica Plain

Prosthetic Dentistry

- ABRAHAM E. MILLER 206 Massachusetts Ave.

OUTLINE OF COURSE LEADING TO THE DEGREE OF DOCTOR OF DENTAL MEDICINE

First Year

First Semester

SUBJECT	TOTAL HOURS PER SEMESTER
Biology and Comparative Anatomy	96
Physics	32
Chemistry	192
English	48
Metal Technic	96
Prosthetic Technic	144

Second Semester

Anatomy	300
English	48
Chemistry	192
Prosthetics	48
Metal Technic	96

Second Year

First Semester

Operative Technic	144
Dental Anatomy	
Prosthetics	144
General Histology	128
Dental Histology	
Physiology	192

Second Semester

Oral Prophylaxis	100
Prosthetics	64
Applied Technic and Dental Anatomy	144
Pathology and Bacteriology	308

Third Year

First Semester

Prosthetics	144
Dental Pathology and Operative Dentistry, Lectures	16
Operative Dentistry, Infirmary	114
Crown and Bridge	72

Hygiene	16
Radiography	15
Anesthesia	8
Laryngology and Syphilology	20
Orthodontia	16

Second Semester

Prosthetics	144
Dental Pathology and Operative Dentistry, Lectures	16
Operative Dentistry, Infirmary	144
Crown and Bridge	72
Ceramics	15
Radiography	15
Materia Medica	128
Orthodontia	16

Fourth Year*First Semester*

Operative Dentistry and Dental Pathology, Lectures	16
Operative Dentistry, Infirmary	216
Oral Surgery, Lectures	16
Crown and Bridge	18
Prosthetics	144
Orthodontia	80
Ceramics	30
Surgery, Clinic	50

Second Semester

Operative Dentistry, Infirmary	216
Surgery, Clinic	50
Oral Surgery, Lectures	16
Crown and Bridge	18
Prosthetics	144
Orthodontia	80
Ceramics	30
Ethics and Jurisprudence	5
Physical Diagnosis	15

Departments of Instruction in the Dental School

OPERATIVE TECHNICS

Dr. HATCH

Dr. KOHLHEPP

Dr. H. W. BROWN

The student's work in this department will include the study of the forms of teeth, carving, and the study of the position and form of pulp chambers and canals by the dissection of teeth.

The course is supplemented by the study of the preparation of all classes of cavities and the use of the various materials in filling.

The Technic Laboratory is equipped with manikin heads, by means of which the student is enabled to obtain experience which closely simulates that of actual practice on the living patient.

ANATOMY

Dr. SULLIVAN

Dr. NOLEN

Dr. HEPBURN

The course in anatomy is given during the second half of the first year. It consists of lectures, recitations, and of special demonstrations on the cadaver. In addition, during the first four weeks of the course six hours a week are devoted to section work in Osteology.

Statement of Expenses Incidental to Work in Anatomy

Dissecting material, \$7.50

Laboratory coat, \$1.25

Dissecting instruments, \$5 to \$8

Text-books, \$7 to \$15

Bone deposit, \$5.

GENERAL CHEMISTRY

Dr. ASHLEY

Mr. BRADLEY

Mr. CHAKMAKJIAN

Mr. GREELEY

Mr. O'MEARA

The course in General Chemistry is of the grade set by colleges and universities for the Bachelor's degree. It includes

the usual instruction on the metals and non-metals supplemented by qualitative analysis. It also includes a series of lectures on organic chemistry, and physiological chemistry. The time devoted to chemistry per week consists of three lectures with demonstrations, two recitations and seven hours of laboratory, making a total of twelve hours per week.

Dental Chemistry. The preliminary training in chemistry is followed by lectures, recitations, and laboratory work in dental chemistry. The metals, with their alloys and salts as used in dentistry, the bones and the teeth, the saliva, and the chemistry of the mouth are studied.

ENGLISH

Mr. SCAMMELL

The study of exposition and argument, as the basis of scientific and literary style; the elements of logic and critical analysis. Illustrative reading, discussion, themes, and reports. The object of the course is to develop mature judgment, intellectual appreciation, and a business-like mode of expression.

METAL TECHNIC

Mr. HUNT

This is a practical course designed to develop the mechanical ability of the student and to give him a knowledge of general mechanical principles necessary for the intelligent performance of his work.

The working qualities of the various metals are explained, and demonstrations given. The student is required to design, draw, and construct articles in metal, under the constant supervision of the instructor in charge.

PROSTHETIC DENTISTRY

Dr. FARRIS

Dr. ADELSTEIN

Dr. GALE

Dr. HOOKER

Dr. KRAMER

Dr. C. B. MORSE

Dr. PETERSON

Dr. POLLINA

Dr. REED

Dr. RONAN

Dr. VOLK

Dr. WOLFF

Particular attention is given to practical manipulation of vul-

canite, celluloid, aluminum, and cast metal, for dentures; to gold-plate work, to preparation of plate for continuous gum and the application of continuous gum to crown and bridge work, and the construction of gold crowns and bridges. The natural form, color, and arrangement of the teeth are explained, and the mode of procedure, from taking an impression to the completion of a case is thoroughly demonstrated. Instruction is given in anatomical articulation and in the treatment of cleft palate and other difficult cases.

PHYSIOLOGY

Dr. RYAN

Dr. SWINDLE

The course consists of lectures, laboratory work, demonstrations, and quizzes. In the laboratory and demonstrations the student learns the methods by which the facts of physiology have been ascertained. In the lectures the subject is treated systematically, the lectures being correlated with the laboratory work. Special emphasis is placed upon those aspects of human physiology which have a practical bearing upon the subject of dentistry.

HISTOLOGY

Dr. BATES

Dr. SPRAGUE

The work during the first half of the allotted time will be identical with that of the students in the Medical School. This part of the subject covers the study of the elementary tissues, beginning with their origin in the embryo.

Dental Histology. Dental Histology will be taught during the second year. In this connection particular attention will be given to the study of the minute anatomy of the tooth. The development of the teeth will also receive careful consideration.

The department is equipped with microscopes which, on the payment of a small fee, will be at the service of such as cannot furnish instruments of their own.

OPERATIVE DENTISTRY

Dr. RICE

Dr. AINSWORTH

Dr. HOUSTON

Dr. FARRINGTON

Dr. FLYNN

Dr. H. H. PIPER

Dr. ARNOLD

Dr. GETCHEL

Dr. PIERCE

Dr. BAILEY

Dr. GETHRO

Dr. J. R. PIPER

Dr. BAKER

Dr. W. H. GRANT

Dr. REGAN

Dr. BARTON

Dr. HARDON

Dr. RICHARDSON

Dr. BILLINGS

Dr. HATCH

Dr. RICHBURG

Dr. A. R. BROWN

Dr. JEPSEN

Dr. RISEGARI-GAI

Dr. H. W. BROWN

Dr. KASTON

Dr. ROSENTHAL

Dr. DALY

Dr. KNIGHT

Dr. ST. ANDRE

Dr. DEWITT

Dr. LUTTROPP

Dr. TANNEBRING

Dr. DICKEY

Dr. MACKINNON

Dr. TAYLOR

Dr. DOUBLEDAY

Dr. MACLEOD

Dr. VROOM

Dr. FAXON

Dr. H. G. METTERS

Dr. WHICHELOW

Dr. FOGG

Dr. MILES

Dr. WILLEY

Dr. FORBES

Dr. OSBORNE

Dr. WOLFF

Dr. WORTHEN

The course consists of a series of lectures supplemented by practical instruction in the Infirmarys of the School. The pathological conditions of the teeth and surrounding tissues are thoroughly discussed and methods of treatment given.

Preventive dentistry is carefully considered in its various phases and demonstrations are given in prophylactic treatment.

Ample opportunity for work in practical operative dentistry is furnished in this department, and the student by actual practice receives training in the various dental operations, and in the diagnosis and treatment of diseased conditions of the mouth and teeth.

Instruction is given in the use of local anesthetics and practical demonstrations in their application are made daily. Frequent clinics illustrating the most approved methods of operating are given by the associate professor and members of the staff.

CROWN AND BRIDGE

Dr. BRIDGE

Dr. COGAN

Dr. MARGERISON

Dr. BRIGGS

Dr. KEARNEY

Dr. GOODSPEED

The operating room and laboratory in this department are of ample size and are properly equipped with modern chairs and appliances for the construction of the most approved forms of crowns and bridges.

In this course, the student is prepared by a series of lectures and is then taken directly into the laboratory where he is required to make a variety of specimen cases on anatomically articulated models.

The specimen work is done during the Junior year, thus preparing the student for the practical work of the Senior year.

Special attention is given to the art of carving, shading and fusing porcelain, and the construction and adaptation of practical cases in this class of work is required. The department is open daily throughout the year, both morning and afternoon, and all work is done under the direct supervision of the professor in charge.

ORTHODONTIA

Dr. DELABARRE

Dr. DUDDY

Dr. A. L. MORSE

Dr. PIERCE

Dr. ALLEN

The Junior year is devoted to lectures on the theory of normal occlusion and malocclusion, history, etiology, diagnosis, technic, and uses of appliances. The lectures of the Senior year cover the application of the principles of orthodontic procedure to the different classes of malocclusion. Emphasis is laid on preventive orthodontia rather than corrective.

Clinical work is elective, but those who do not conduct cases have to attend and observe the work, and submit written reports on assigned cases.

PATHOLOGY AND BACTERIOLOGY

Dr. TIMOTHY LEARY

Dr. OLGA LEARY

Dr. MCCARTHY

Dr. DUNBAR

Dr. WILLIAMS

Dr. MARGESON

Miss FRITZ

Miss PEWS

Miss PEHRSON

The subjects of pathology and bacteriology are considered together. This method permits showing the relation of bacteria to the disease processes which they produce. The work will consist of lectures, required laboratory work, and demonstrations. The student is made acquainted with the bacteria of the mouth, and is required to cultivate and study the important organisms. He is expected to carry out experiments to demonstrate the production of artificial caries. The subject of general pathology is thoroughly covered. The special pathology of the mouth, and of the respiratory and intestinal tracts, is given particular attention. Inflammations, especially the infectious types, among which are the lesions produced by the pyogenic bacteria, are carefully considered. The process of repair in soft tissue and bone, and tumors of the mouth and face, are studied from sections of lesions.

PHARMACOLOGY

Dr. WHEATLEY .

Dr. HASKINS

Dr. BUCHOLZ

Dr. FUNNELL

Dr. COLWILL

Dr. STRONG

Dr. GREELEY

Instruction in Pharmacology consists of lectures, recitations, and laboratory exercises. Special attention is given to the physiological action of drugs, and to the relation always existing between Therapeutics, Physiology and Pathology. The laboratory course is designed to familiarize the student with all medicinal preparations and processes.

Prescription writing receives careful attention and recent additions to *materia medica*, deemed of interest to the dentist, are duly considered.

ORAL SURGERY, ANESTHESIA AND EXTRACTION

Dr. CHENERY

Dr. PROCTOR

Dr. NORTON

Dr. BULGER

Dr. HOYT

Dr. F. E. GRANT

The course in Oral Surgery consists of a series of lectures. These lectures explain the fundamental facts which should be understood by all students who propose to treat any part of the human body.

Asepsis and anesthesia are discussed, and practically demonstrated in the infirmary. The student is instructed in the administration of ether and nitrous-oxide gas. Anesthetics, both general and local, are administered daily in the surgical clinic. Local anesthesia receives the careful attention that its importance demands. The technic of aseptic and antiseptic methods in dental work is thoroughly explained.

The clinics afford ample opportunity for practical experience in extracting and for demonstrating the surgical treatment of the various lesions of the jaws and oral cavity.

PHYSICAL DIAGNOSIS

Dr. HASKINS

This is an elementary course on the study of physical signs in health and diseases, and is necessary for the dental practitioner who is to administer general anaesthetics. The course consists of lectures and exercises in sections, chiefly on elementary osculation.

ROENTGENOLOGY

Mr. HOLDEN

The course on Roentgenology consists of lectures to the Senior students on the electro-physics of the X-Ray, general technic and the interpretation of radiographs.

The School is equipped with apparatus of the most modern type.

DEGREES AND HONORS

1916-1917

Sixty-first Annual Commencement

June 18, 1917

DEGREES CONFERRED IN COURSE

Bachelor of Arts

Leon Eugene Ball (<i>magna cum laude</i>)	John Edgar Libby (<i>extra ordinem</i> as of the Class of 1912)
Howard Searles Bartlett	Leander Allan MacDonald (<i>extra ordinem</i> as of the Class of 1914)
Leon Julius Carro	Carl Alphonso Marsh (<i>cum laude</i>)
Loukas Nicholas Coussoule	Elbert Wilder Whippen (<i>cum laude</i>)
Roland Crocker Davies	
Roland Leonard Eaton	

Bachelor of Science

Karl Bigelow Borden	Howard Bennett Peck
Daniel Clarence Cameron	Alfred Smith Reed
Philip Littlefield Coddington	William Spunt
Harold Edward Collins (<i>cum laude</i>)	Charles Ingram Stanton (<i>cum laude</i>)
Francis Gregory Curtin	Walter Prescott Sweet
Clarence Dunbar Hart	Leland Parker Symmes
Franklin Johnson Lane	Barron Crowell Watson
Oscar Earl Merrow (<i>cum laude</i>)	Ernest Clair Witham (<i>extra ordinem</i> as of the Class of 1904)
Frederick Henry Paul, Jr. (<i>cum laude</i>)	

Bachelor of Science in Chemistry

Albert Verner Bratt	Albert John Moher (<i>magna cum laude</i>)
Elmer Louis Claff	Joseph Ellsworth Poole
George William Collins	John Joseph Rourke
Harold Francis Hurley (<i>magna cum laude</i>)	William Merrill Scamman
Herman Wentworth Jones (<i>magna cum laude</i>)	Archibald Kyle Sefton
Joseph Rozart Minevitch (<i>extra ordinem</i> as of the Class of 1916)	Harold Jenkin Williams

Bachelor of Science in Civil Engineering

Louis Adelson	Mizael Leme Ferreira
Arthur Randolph Atkins	John Michael McCarthy, Jr.
Colby Lewis Burbank (<i>cum laude</i>)	Warren Franklin Merritt
Bernard Dominic Connor	Ernest Dawson Mortenson
Chester Thomas Caverly Davis	

Bachelor of Science in Structural Engineering

Calvin Marx Heileman	Edson Bancroft Stowell
Frank Cooley Milliman	Edward Andrus Terhune, Jr. (<i>cum laude</i>)
Leo Augustus Porter (<i>cum laude</i>)	
Lake Smith Ransom (<i>cum laude</i>)	

Bachelor of Science in Electrical Engineering

Horton Brown	Lewis Aaron Tentler
--------------	---------------------

Bachelor of Science in Mechanical Engineering

Chester Reed Earle	Byron Franklin Nichols
Viking Raymond Holmgren	Warren Franklin Terry
Mahlon Gilman Knowles	Frank Gustave Wahlen (<i>summa cum laude</i>)
Benjamin Franklin Kraus	

Bachelor of Science in Chemical Engineering

Gilbert Edward Baldwin (<i>magna cum laude</i>)	Elliot Chandler Foster
Philip Amory Carr	Harold Bickford Leland

Bachelor of Sacred Theology

Eleanor Bisbee	John Bancroft Bisbee
----------------	----------------------

Master of Arts

Genevieve Henrietta Cheney	Ruth Sibley Haskell
Francis Joel Foster	Richard Roy Lamont

Master of Science

Kathryn Holden	Carl Weston Staples
----------------	---------------------

Honors

Gilbert Edward Baldwin (Chemical Engineering)	Herman Wentworth Jones (Chemistry)
Leon Eugene Ball (Political Science)	Albert John Mohor (Chemistry)
Harold Francis Hurley (Chemistry)	Frank Gustave Wahlen (Mechanical Engineering)

Honorable Mention

Colby Lewis Burbank (Civil Engineering)	Lake Smith Ransom (Structural Engineering)
Harold Edward Collins (Political Science)	Charles Ingram Stanton (Biology)
Carl Alfonso Marsh (History and Public Law)	Edward Andrus Terhune, Jr. (Structural Engineering)
Oscar Earl Merrow (Political Science)	Frank Gustave Wahlen (Mathematics)
Frederick Henry Paul, Jr. (Biology)	Elbert Wilder Whippen (English)
Leo Augustus Porter (Structural Engineering)	

Doctor of Medicine

Edward Augustus Adams (<i>cum laude</i>)	James Caleb Kirby
Richard Maurice Ash	Raymond Miles Krepps
Frederick Charles Atkinson (<i>cum laude</i>)	Esdras Joseph Lanois
Jacob Ellis Banquer (<i>cum laude</i>)	Charles Saul Lipsitt (<i>cum laude</i>)
Raymond Germand Bell	Walter Ralph Loewe (<i>cum laude</i>)
David Bridgwood	Rufus Wilfred Long
Abe Arthur Brown	Alexander Stewart MacMillan (<i>cum laude</i>)
Henry Seabury Brown	Harry Leo McDonald
Alphonse Frank Budreski	Hugh Gordon McKay (<i>cum laude</i>)
Chester Arthur Casey (<i>cum laude</i>)	David Bernard Medalia
Lawrence Chesley Chisholm	James Morgan Meehan
Anna Quincy Churchill, A.M. (<i>summa cum laude</i>)	Edward Lester Merritt
Millard Cressey Clark	Robert Elmer Merritt
Andrew John Crichton, Jr., A.B.	James Moore Murphy (<i>summa cum laude</i>)
Manuel Felix Cunha (<i>cum laude</i>)	John Gabriel O'Connell (<i>cum laude</i>)
Inez Margaret Currie	Elizabeth Veronica O'Neill (<i>cum laude</i>)
Edward Anthony Duffy	Warren Martin Pettingill
Patrick Joseph Fitzgibbons	Arthur Andrew Rattey
Alma Evelyn Fowler	Arthur Joseph Ring
Leland Malcolm French (<i>cum laude</i>)	Edward Rosen (<i>cum laude</i>)
Henry Joseph Gallagher (<i>cum laude</i>)	Benjamin William Rudman (<i>cum laude</i>)
Edward Henry Ganley	Charles Augustus Salmon
Louis Gordon	Avery Hugo Sarno
Louis Julian Grandison	Jacob Schæfer (<i>cum laude</i>)
Wilbourt Edward Greenwood (<i>cum laude</i>)	Samuel Segal, Jr.
Leon Kevork Gurjian	Sigmund Simons
Miles Myer Hamburg	Robert Slater
Morgan Patrick Hanlon	Lillian Richardson Smith (<i>summa cum laude</i>)
Abraham Haskins (<i>cum laude</i>)	Sidney Solomon (<i>cum laude</i>)
Roy Joseph Heffernan (<i>cum laude</i>)	Theodore LeRoy Story (<i>cum laude</i>)
Jacob Hagop Hekimian	Wesley Allter Van Deusen
Morris Hoffman (<i>cum laude</i>)	John Clement Ward
Anne Leslie Hooper, A.B. (<i>cum laude</i>)	Helen Thompson Warner (<i>cum laude</i>)
Lawrence Towle Hopkins	Walter Brown Willey, Jr.
Rhoda Letitia Howard	William Franklin Wood, M.D.
Lewis Wells Johnson (<i>cum laude</i>)	Thomas Clark Wyman
Royal Knight Joslin	Seymour Israel Zonn (<i>cum laude</i>)
Josephine Downie Kable (<i>cum laude</i>)	
Morris Frank Kaufman	

Doctor of Dental Medicine

Emory Chester Bardwell	Irving Robinson Hardy
Robert Hyland Barnard	Clarence Wilfrid Harrigan
Anthony Barone	Joseph Gerard Harrington
George Francis Bearse	Harry Asahel Hart
Harold Jones Bennett	Timothy Gerard Healey
Bernard Berg	Sydenham Cohen Henriques
Harlan Frederic Besse	Edward Augustine Henry
Helen Alva Marion Bixby	John Patrick Herlihy
Israel Michael Blumerfield	Walter Irving Hird
Bernard Nathan Cantor	Martin Joseph Hoar
Thurston Everard Carr	Alfred Lothrop Hooker
Frank Leonard Chase	Harry Clinton Jones
Marion Julia Cobb	Anthony Louis Kapochy
Albert Gaffney Coffey	John Francis Kearney
William Thomas Coggar	Harold Francis Kedian
Harry Conrad Collier	John Edward Labonte
John Francis Commins	Birney James Lameri
Llewellyn Lloyd Crites	Maurice Allen Litner
Paisley Sommers Crowe	Otis Moulton Littlefield
Henry Raymond Delaney	Walter Eugene Lockwood
Ralph Jacob Deyoe	Raymond Axel Lundgren
John Gilbert Temple Dick	John MacNeily
Arthur Dixon, M.D.	Harry Mandelbaum
Theodore Patrick Donahoe	Willard Everett Martin
William Frederick Donohoe	John Joseph McCann
Theresa Genevieve Doyle	William Henry McCue
Arthur True Ellison	Benjamin Mechaber
Orrin Edgar Fernald	William Anthony Milliken
Alice Sara Foster (<i>cum laude</i>)	Anna Mintz
Merwin Keith Fox	William Edward Moore
Eugene Louis Frechette	Carlton Brett Morse
Emile Raymond Fredette	Myron Clarke Morse
Albert Everard French	Raymond Francis Mulcahy
Frank Fuller, Jr.	Frank Hill Murphy
Stanley Robert Garrard	John Ralph Murphy
Samuel Goldman	Phillip Irving Murray
Edward Clark Goodell	Thomas Edward O'Hara
John Greenough Goodridge	Richard Campbell Owen
Ernest Moore Gould (<i>cum laude</i>)	Arthur Todd Palmer
Richard James Grigg	Ray Huntress Palmer (<i>cum laude</i>)
Philip Cheever Gutterson	Clarence Elwood Parker (<i>cum laude</i>)
Stanley Edward Hall	David Porter

Alec Prizer	Stephen Lawrence Speight
Fred Goldsmith Rollins	Bernard Francis Staples
Edward Rosenberg	Louis Sternberg
Everett Hale Ruggles (<i>cum laude</i>)	Donald Gordon Stewart
Edward Francis Ryan	Edward Francis Sullivan
Edward Michael Ryan	Alton Houghton Swett
John Thomas Saunders	Clarence Milton Taft
Robert Nims Sawyer	Wilfred Valentine Theriault
James Bernard Scanlan	Ralph James Thompson
George Anthony Schlichte	Oliver Dunbar Wescott
John Charles Seidel	Harold Snell Whitney
Michael Josesh Shea	Robert Patten Wildes
George Richard Smith	Arthur Clark Wilson
Herman Nelson Smith	Hammon Louis Wollison
Isidore Wilfred Smith	

Jackson College for Women

Bachelor of Arts

Almena Cogswell	Marion Ward Raymenton (<i>magna cum laude</i>)
Helen Beatrice Higgins	Helen Almira Rowe (<i>cum laude</i>)
Helen Marion Jameson	Marian Everson Trott
Nellie Birkenhead Mansfield	Geneva Alice Wheet (<i>summa cum laude</i>)
Beulah Borden Moody	
Esther Parshley	
Dorothy Pease (<i>magna cum laude</i>)	

Bachelor of Science

Margaret Cochran	Marjorie Grace Dean
Helen Beatrice Crocker (<i>magna cum laude</i>)	Mildred Brooks Simpson (<i>magna cum laude</i>)

Honors

Helen Beatrice Crocker (Political Science)	Mildred Brooks Simpson (Political Science)
Marion Ward Raymenton (History and Public Law)	Geneva Alice Wheet (English)

Honorable Mention

Dorothy Pease (Philosophy and Education)	Geneva Alice Wheet (History and Public Law)
Helen Almira Rowe (History and Public Law)	

Commencement Parts

James Moore Murphy, Cand. M.D. : "Animal Experimentation in Medical Progress."

Helen Almira Rowe, Cand. A.B. : "The American College Woman and Democracy."

*Chester Reed Earle, Cand. B.S. : "The Contribution of the Engineering College to the Development of Character and Culture."

Charles Ingram Stanton, Cand. B.S. : "War-time Censorship as a Necessity."

William Edward Moore, Cand. D.M.D. : "A Decade in the History of Dentistry."

John Bancroft Bisbee, Cand. S.T.B. : "Religion and Government."

Diplomas Given Subsequent to June, 1917

Doctor of Medicine

(*Extra ordinem* as of the Class of 1917)

Nathan Abraham Bolotow	Michael Angelo Gangemi
Franklin Chester Cassidy	Fred Chambers Goddard
Lee Phillp Crimin	Parker Mills
Louis Frederic Curran	John Edward Ruisi
Charles Stanislaus Doucet	John Joseph Ward

Doctor of Dental Medicine

(*Extra ordinem* as of the Class of)

1909

Clarence Ellsworth House

1912

Ernest Valentine Beazley

1915

William Tracy Wall

1916

Lauriston Ellis Orr

Bertram Hatch Sawyer

Walter Joseph Kennedy

1917

Laura Belle Deane

Charles William Krasnoff

Wendell Phillips Ford

Willis Abraham Rosenbloom

Charles Joseph Fox

Samuel Segal

Fred Taylor Jewett

Edwin Sleeper

Arthur Francis Williams

* Called to National Service.

Awards of Prizes 1916-1917

Scholarship of the Class of 1898

Albert Charles Waghorne

Scholarship of the Class of 1882

James Joseph Drummey

Wendell Phillips Memorial Scholarship

David Crockett

Greenwood Prize Scholarship in Oratory

Karl Raymond Henrich

Goddard Prizes

History: Daniel Lorden Coffey

Physics; Woodman Walter Clough

Moses True Brown Scholarship

Oswald Kenric Hammond

Alpha Omicron Pi Scholarship

Genevieve Crosby

Alpha Xi Delta Scholarship

Margaret Durkee

Chi Omega Scholarship

Jane Stodder Davies

Rhetorical Prizes

First Prize

Jesse Moses Aronson

Second Prize

David Crockett

Third Prize

Irene Cushing

REGISTER OF STUDENTS

Students Enrolled in Tufts College 1917-18

[In the following list the course pursued by each student is indicated by the *Italic* letters immediately following the name. The signs used are as follows: courses leading to the degree of A.B., *ab*; to the degree of B.S., *bs*—in Civil Engineering, *ce*; in Structural Engineering, *ste*; in Electrical Engineering, *ee*; in Mechanical Engineering, *me*; in Chemical Engineering, *che*. For the first two years in the Engineering School no differentiation is made.

The third column records the home address, which is in Massachusetts unless stated to be elsewhere. The fourth column gives the address at Tufts College, unless the street is printed in *Italics*, in which case it is a part of the home address.]

FRATERNITIES: $\Sigma \Psi$ (Zeta Psi), 80 Professors Row; $\Theta \Delta X$ (Theta Delta Chi), 123 Packard Ave.; ΔT (Delta Upsilon), 13 Sawyer Ave.; $\Delta T \Delta$ (Delta Tau Delta), 18 Latin Way; $A T \Omega$ (Alpha Tau Omega), 134 Professors Row; $\Sigma T A$ (Sigma Tau Alpha), 163 College Ave.; $\Phi \Delta$ (Phi Delta), 20 Sunset Road; $\Phi E \Pi$ (Phi Epsilon Pi), 157 College Ave.; Commons Club, 890 Broadway.

School of Liberal Arts

Senior Class

Ayers, Charles Frank	<i>bs</i>	<i>Everett</i>	<i>101 Chestnut St.</i>
Barbara, Charles Albert	<i>bs</i>	<i>Port Chester, N. Y.</i>	
		786 E. 4th St., S. Boston	
Brown, William Thomas	<i>bs</i>	<i>Bondsville</i>	East, 28
Burns, Edward Gregory	<i>ab</i>	<i>Taunton</i>	$\Sigma T A$ House
Bruyette, Harold Lawrence	<i>bs</i>	<i>Collinsville, Conn.</i>	$\Phi \Delta$ House
Coffey, Daniel Lorden	<i>ab</i>	<i>Medford</i>	<i>38 Touro Ave.</i>
Cooke, Arthur Burrell	<i>bs</i>	<i>Waltham</i>	ΔT House
Cronin, George Robert	<i>bs</i>	<i>South Boston</i>	$\Phi \Delta$ House
Ellis, William	<i>bs</i>	<i>Roxbury</i>	<i>14 Dewey St.</i>
Geer, James Clifford	<i>bs</i>	<i>Three Rivers</i>	$A T \Omega$ House
Goldberg, Bernard Isadore	<i>bs</i>	<i>Roxbury</i>	<i>39 Clifford St.</i>
Gordon, Israel	<i>bs</i>	<i>Boston</i>	<i>330 Harrison Ave.</i>
Green, Bertram Emanuel	<i>bs</i>	<i>Malden</i>	$\Phi E \Pi$ House
Jochim, Henry Frank	<i>bs</i>	<i>Revere</i>	$\Sigma T A$ House
Johnson, Winthrop Mann	<i>bs</i>	<i>Natick</i>	<i>5 Concord St.</i>
Lalor, Daniel Edward Coffey	<i>bs</i>	<i>Watervliet, N. Y.</i>	East, 18
Mendum, Willis Clark	<i>ab</i>	<i>Woburn</i>	<i>16 Arlington Rd.</i>
Messer, Theodore Powers	<i>bs</i>	<i>Somerville</i>	$\Delta T \Delta$ House
Morison, Trueman Greene	<i>bs</i>	<i>W. Somerville</i>	ΔT House
Penaligan, James Henry	<i>bs</i>	<i>Winchester</i>	<i>11 Maxwell Rd.</i>
Porter, Russell Woods	<i>ab</i>	<i>Springfield</i>	$A T \Omega$ House

Rice, Leonard Alexander	<i>ab</i>	<i>Somerville</i>	<i>51 Avon St.</i>
Rood, George Wilson	<i>ab</i>	<i>W. Somerville</i>	<i>62 Curtis St.</i>
Warren, Lowell Alfred	<i>bs</i>	<i>Waltham</i>	<i>30 Prospect St.</i>
Weisberg, Max	<i>bs</i>	<i>Boston</i>	<i>29 St. Botolph St.</i>

Junior Class

Barrows, Wendell Parsons	<i>bs</i>	<i>Waltham</i>	<i>101 Alder St.</i>
Beyer, Samuel Harry	<i>bs</i>	<i>Roxbury</i>	<i>118 Howland St.</i>
Campbell, Alan Bailey	<i>ab</i>	<i>Dorchester</i>	Δ T House
Colcord, Elmer Danforth	<i>bs-bd</i>	<i>Pittsfield, Me.</i>	Paige, 7
Crocker, Willard Frederick	<i>bs</i>	<i>Quincy</i>	Δ T Δ House
Crockett, David	<i>ab</i>	<i>Arlington Heights</i>	<i>15 Wachusett Ave.</i>
Cronin, George Francis	<i>bs</i>	<i>Malden</i>	<i>257 Highland Ave.</i>
Davison, John Purley	<i>ab</i>	<i>North Billerica</i>	Θ Δ X House
Farley, Albert Leo	<i>bs</i>	<i>Boston</i>	Δ T Δ House
Fernald, James Merrill	<i>ab</i>	<i>Fitchburg</i>	Δ T House
Garabedian, Harold Arsen	<i>bs</i>	<i>Dorchester Center</i>	Σ T A House
Hamlin, Roger Chesley	<i>bs</i>	<i>W. Roxbury</i>	<i>148 Stratford St.</i>
Henrich, Karl Raymond	<i>ab</i>	<i>Greenfield</i>	West, 17
Lebowich, Richard Jacob	<i>bs</i>	<i>Dorchester</i>	West, 26
Libman, Harry	<i>bs</i>	<i>Dorchester</i>	<i>1 Page St.</i>
MacLeod, Earle Harvey	<i>bs</i>	<i>Cliftondale</i>	Δ T House
Malone, James Francis	<i>ab</i>	<i>Dorchester</i>	Σ T A House
Marcus, Saul Maurice	<i>bs</i>	<i>Lynn</i>	Φ E Π House
McKenna, Hugh Steele	<i>bs</i>	<i>Hartford, Conn.</i>	East, 18
McKenzie, William Forbes	<i>bs</i>	<i>Thorndike</i>	A T Ω House
Nash, Louis Edward	<i>bs</i>	<i>Allston</i>	Δ T House
Nathanson, Robert Bernard	<i>bs</i>	<i>Boston</i>	<i>22 N. Russell St.</i>
Quint, Samuel Theodore	<i>bs</i>	<i>Malden</i>	West, 8
Schenk, Harold Louis	<i>ab</i>	<i>Wheeling, W. Va.</i>	Δ T Δ House
Segel, Abram	<i>bs</i>	<i>Melrose</i>	Φ E Π House
Stroehmann, Carl Frederick	<i>bs</i>	<i>Wheeling, W. Va.</i>	Δ T Δ House
Tyler, Maurice Leslie	<i>bs</i>	<i>W. Medford</i>	Dean, 13
Whitcomb, Lyman Wells	<i>ab</i>	<i>Barre, Vermont</i>	Z Ψ House
Williams, Allton Thomas	<i>ab</i>	<i>Revere</i>	<i>381 Broadway</i>
Williams, Richard Joseph	<i>bs</i>	<i>Lynn</i>	Σ T A House

Sophomore Class

Ballou, John Lyman	<i>bs</i>	<i>Medford</i>	<i>76 Winthrop St.</i>
Bedell, Howard Everett	<i>ab</i>	<i>Wilmington</i>	<i>Burlington Ave.</i>
Beaton, James Stanley	<i>bs</i>	<i>Manchester</i>	<i>50 Central St.</i>
Beattie, Ralph	<i>ab</i>	<i>North Andover</i>	A T Ω House
Brackett, William Ernest	<i>ab</i>	<i>West Medford</i>	Z Ψ House
Cahoon, Sumner Roger	<i>bs</i>	<i>Somerville</i>	<i>26 Warner St.</i>

Cohen, Arthur Gilbert	<i>ab</i>	<i>Somerville</i>	129 <i>Sycamore St.</i>
Cosgrove, Charles David	<i>bs</i>	<i>Medford</i>	87 <i>Otis St.</i>
Goduti, Emil	<i>bs</i>	<i>Somerville</i>	83 <i>Hudson St.</i>
Goldfine, Albert	<i>bs</i>	<i>Boston</i>	Φ E II House
Hall Clifford Roberts	<i>bs</i>	<i>Charlestown</i>	54 <i>High St.</i>
Hall, Webster	<i>bs</i>	<i>Somerville</i>	23 <i>Monroe St.</i>
Hammond, Oswald Kenric	<i>ab</i>	<i>Auburn, Me.</i>	East, 30
Joy, Edward Albert	<i>ab</i>	<i>Watertown</i>	297 <i>Mt. Auburn St.</i>
Kellock, James Bryden, Jr.	<i>bs-bd</i>	<i>Somerville</i>	22 <i>Dover St.</i>
Kenny, Walter Douglas	<i>bs</i>	<i>Pittsfield</i>	Φ Δ House
Lamont, Ralph Wilkinson	<i>ab</i>	<i>Somerville</i>	Z Ψ House
Leach, Edgar Percy	<i>bs</i>	<i>Methuen</i>	East, 26
Lipkin, George	<i>bs</i>	<i>Everett</i>	817 <i>Broadway</i>
Miles, George Stanley	<i>bs</i>	<i>W. Somerville</i>	West, 27
Nickerson, Donald Edgar	<i>ab</i>	<i>W. Somerville</i>	West, 25
O'Donnell, John Parsons	<i>ab</i>	<i>Medford</i>	Dean, 7
Perham, Sidney Craig	<i>bs</i>	<i>Chelmsford</i>	Δ T Δ House
Prescott, Daniel Alfred	<i>bs</i>	<i>Medford</i>	16 <i>Summer St.</i>
Shepard, Sumner Ware	<i>ab</i>	<i>Everett</i>	16 <i>Winthrop St.</i>
Sherin, Marcus Leon	<i>bs</i>	<i>Swampscott</i>	East, 12
Sweeney, Frederick Lawrence	<i>ab</i>	<i>E. Boston</i>	35 <i>Bennington St.</i>
Thiesfeldt, Arnold Edward	<i>bs</i>	<i>Gardner</i>	Θ Δ X House
Thissell, Paul Edwin	<i>ab</i>	<i>E. Saugus</i>	<i>Sumner St.</i>
Walker, Edgar Ruston	<i>bs-bd</i>	<i>Cambridge</i>	Paige, 25
Weston, Ralph Dewey	<i>ab</i>	<i>W. Bridgewater</i>	West, 10
Whitmarsh, George Freeman	<i>bs</i>	<i>E. Braintree</i>	West, 10
Wood, Ralph Peirce	<i>bs</i>	<i>Everett</i>	Φ Δ House

Freshman Class

Anopolsky, David	<i>bs</i>	<i>Roxbnry</i>	244 <i>Harold St.</i>
Anderson, Paul Joseph Adolph	<i>bs</i>	<i>So. Manchester, Conn.</i>	East, 29
Appel, Bernard	<i>bs</i>	<i>Boston</i>	9 <i>Malden St.</i>
Armstrong, James Harvey, Jr.	<i>bs</i>	<i>Dorchester</i>	12 <i>Hamlet St.</i>
Atkinson, Stewart Bryon	<i>bs</i>	<i>Dorchester</i>	44 <i>Brent St.</i>
Bieringer, Walter Henry	<i>bs</i>	<i>Brighton</i>	Dean, 8
Bishop, Leslie Swan	<i>bs</i>	<i>Bridgeport, Conn.</i>	East, 21
Blackford, Emerson Miller	<i>bs</i>	<i>Findlay, Ohio</i>	West, 28
Brenner, Harry	<i>ab</i>	<i>Lynn</i>	62 <i>Church St.</i>
Burstein, Samuel	<i>bs</i>	<i>Roxbury</i>	117 <i>Crawford St.</i>
Carmichael, Leonard	<i>bs</i>	<i>Philadelphia, Pa.</i>	Dean, 1
Carper, Harold Goodrich	<i>bs</i>	<i>Somerville</i>	228 <i>Powder House Blvd.</i>
Christiansen, George Uhlin	<i>bs</i>	<i>Boston</i>	34 <i>Woodlawn St.</i>
Claff, Philip Frederic	<i>bs</i>	<i>Malden</i>	West, 8

Clarke, Edmund Francis	bs	Somerville	44 Whitman St.
Clark, Earl Vollintine	bs	Belmont	East, 31
Cliff, Stanley Esten	bs	Somerville	29 Powder House Terrace
Cohen, Edward Israel	ab	Roxbury	Φ E II House
Cohen, Harold Israel	bs	Lynn	322 Summer St.
Colleson, John Anderson	bs	Newton	69 Waban Hill Rd.
Cosgrove, Frederick Augustus	ab	Medford	152 Fellsway West
Covner, Albert Henry	bs	Lynn	99 Blossom St.
Cushing, Lovell Mills	bs	Medford	37 Royal St.
Daugherty, Howard Feer	bs	Indiana, Pa.	
			56 Boylston St., Cambridge
Downs, Charles Henry	bs	Everett	16 K. K. Terrace
Fava, Philip	ab	Newark	Φ E II House
Feldman, Morris	bs	Boston	20 No. Anderson St.
Frankel, William Israel	bs	Roxbury	West, 26
Freedman, Jacob Jonathan	bs	South Boston	East, 12
French, Carroll Brackett	bs	Lynn	143 Lynnfield St.
Gager, Harold Anthony	bs	Willimantic, Conn.	Dean, 8
Garson, Morton Simeon	bs	Malden	52 Myrtle St.
Gilcreast, Seaver Richmond	ab	Methuen	East, 26
Grant, Donald Clark	bs	Medford	57 Bowen Ave.
Hall, George Dares	bs	W. Somerville	62 Bromfield Rd.
Hayward, Charles Edward	bs	Attleboro	Dean, 11
Heinz, Herschel	bs	Everett	166 Union St.
Huntington, Gilbert Gerrish	bs	Boston	16 Westland St.
Isaac, Edward John	bs	Brighton	32 Richardson St.
Jones, Hobart Vassar	bs	N. Livermore, Me.	
			32 Hardy Ave., Watertown
Jordan, Royal Robert	bs	Wilmington	Church St.
Kaplan, Hilal	ab	Chelsea	74 Franklin Ave.
Keefe, Owen Francis	bs	Watertown	14 Irving Park
Kimball, Elbert Tower	ab	Burlington, Vt.	West, 24
Levine, Samuel	bs	Boston	4 Genesee St.
MacDonald, Ralph Reed	bs	Burlington	Z Ψ House
Mahoney, John Louis	ab	Quincy	188 Whitwell St.
Matzkin, Jacob	bs	Chelsea	187 Chestnut St.
Meisner, Max	bs	Newark, N. J.	West, 13
Mullen, Charles King	bs	Wollaston	West, 1
Murphy, William Mansuetus	bs	Arlington Heights	35 Ashland St.
Newton, Ernest Lincoln	ab	Somerville	126 Highland Rd.
Noble, Milton Arthur	bs	W. Medford	70 Harvard Ave.
Olson, Arvid Leonard	bs	Somerville	28 Gibbens St.
Palmer, Howard Hunt	bs	W. Roxbury	192 Park St.
Parnes, Hyman Abramam	bs	Brighton	6 Lawrence St.

Parsons, Edward Cole	<i>bs</i>	<i>Dorchester</i>	East, 25
Peirce, Lincoln Carret	<i>bs</i>	<i>W. Newbury</i> 1039 Mass. Ave., Cambridge	
Perkins, Sherman Thayer	<i>ab</i>	<i>Lynn</i>	West, 24
Perry, Norman Warren	<i>bs</i>	<i>Wilmington</i>	Church St.
Perry, William Hartwell	<i>bs</i>	<i>W. Somerville</i>	West, 28
Pickett, George Arthur, Jr.	<i>bs</i>	<i>Berlin, Conn.</i>	East, 10
Pierce, Chester Blanchard	<i>bs</i>	<i>Campello</i>	1081 Warren Ave.
Pierce, Nathan Gilson	<i>bs</i>	<i>Chester, Vt.</i> 15 Chester Road, Payson Park	
Priesing, Carl William Hermon	<i>bs</i>	<i>Roxbury</i>	14 Albert St.
Proctor, Ralph Warner	<i>bs</i>	<i>N. Cambridge</i>	138 Elm St.
Pryor, Paul Lawrence	<i>ns</i>	<i>Revere</i>	Σ T A House
Quinn, David Harold	<i>bs</i>	<i>Boston</i>	West, 12
Richards, Clare	<i>bs</i>	<i>Sloughton</i>	East, 10
Rosenblatt, George D.	<i>bs</i>	<i>Malden</i>	93 Holyoke St.
Rower, Morris Levi	<i>bs</i>	<i>Lynn</i>	39 Wheeler St.
Russell, Gardner Wetherbee	<i>bs</i>	<i>Concord Junction</i>	
Rutter, John Elliot	<i>bs</i>	<i>Waltham</i>	East, 29
Ryan, James K.	<i>bs</i>	<i>Ware</i>	55 Liberty Ave.
Sampson, Arthur Graves	<i>bs</i>	<i>N. Weymouth</i>	West, 2
Satz, Samuel Owen	<i>bs</i>	<i>Newark, N. J.</i>	West, 13
Saunders, George Washington	<i>bs</i>	<i>Arlington Heights</i>	15 Lowell Pl.
Savitz, Harry Austryn	<i>bs</i>	<i>Roxbury</i>	35 Hollander St.
Smerage, Keith Percy	<i>ab</i>	<i>Topsfield</i>	East, 34
Smith, Percy Thompson	<i>bs</i>	<i>Ludlow, Vt.</i>	East, 5
Staples, Guy Baxter	<i>bs</i>	<i>Lynn</i>	61 Allen Ave.
Starkweather, Louis Pomeroy	<i>bs</i>	<i>Plainfield, N. J.</i>	Dean, 3
Stone, Donald Pitman	<i>bs</i>	<i>Marblehead</i>	Z Ψ House
Stowell, Elbridge Zebina	<i>bs</i>	<i>Somerville</i>	152 Powder House Blvd.
Sullivan, Kenneth Frank	<i>bs</i>	<i>Houlton, Me.</i> 24 Milton St., Somerville	
Taggart, Curtis Learoyd	<i>bs</i>	<i>Wakefield</i>	East, 30
Taylor, Andrew Gavin	<i>bs</i>	<i>Maynard</i>	East, 22
Telfer, Edgar Hall	<i>bs</i>	<i>New York, N. Y.</i>	East, 31
Thompson, Albert	<i>bs</i>	<i>E. Westmoreland, N. H.</i>	East, 5
Thompson, Cameron Saunders	<i>ab</i>	<i>Syracuse, N. Y.</i>	East, 23
Titiev, Oscar	<i>ab</i>	<i>Boston</i>	135 Leverett St.
Trimble, Alfred King	<i>bs</i>	<i>Cambridge</i>	1137 Mass. Ave.
Tuttle, Horace Bancroft	<i>bs</i>	<i>Waltham</i>	West, 11
Walton, George Alexander	<i>bs</i>	<i>Calvert, Tex.</i>	75 Winsor St., Boston
Welansky, James	<i>bs</i>	<i>Roxbury</i>	West, 6
White, Edward Aldrich	<i>bs</i>	<i>Newton Lower Falls</i>	Dean, 1
Winer, Hyman William	<i>bs</i>	<i>Dorchester</i>	Φ E II House

Woodward, Clarence Harvey	<i>ab</i>	<i>Tyngsboro</i>	A T Ω House
Wormwood, Gerry Kenneth	<i>bs</i>	<i>Effingham Falls, N. H.</i>	East, 15
Yaffe, Louis Philip	<i>ab</i>	<i>Boston</i>	9 <i>Auburn St.</i>
Young, Leo Alosh	<i>bs</i>	<i>Dorchester</i>	3 <i>Annapolis St.</i>

Unclassified

Baker, Max	<i>bs</i>	<i>Dorchester</i>	1059a <i>Blue Hill Ave.</i>
Burek, Joseph Bernard, Jr.	<i>bs</i>	<i>Sunderland</i>	East, 1
Burns, Leo James	<i>bs</i>	<i>Milford</i>	297 <i>Main St.</i>
Champlin, John, Jr.	<i>bs</i>	<i>Westerly, R. I.</i>	172 <i>Huntington Ave., Boston</i>
Chilson, George Robert	<i>bs</i>	<i>North Adams</i>	10 <i>Fairmount St.</i>
Dee, William John	<i>bs</i>	<i>South Boston</i>	104 <i>G St.</i>
De Lisle, Antonio Daniel	<i>bs</i>	<i>Fitchburg</i>	449 <i>Clarendon St.</i>
DuCharme, Joseph N.	<i>bs</i>	<i>Millbury</i>	47 <i>Walker St., W. Somerville</i>
Enander, Fred Conrad	<i>bs</i>	<i>Willimantic, Conn.</i>	A T Ω House
Gennell, Charles	<i>bs</i>	<i>Harrison, N. J.</i>	Φ E Π House
Gordon, Samuel Morris	<i>bs</i>	<i>Boston</i>	15 <i>Billerica St.</i>
Hosmer, Merton Augustine Jewett	<i>bs</i>	<i>Concord Junction</i>	495 <i>Main St</i>
Leavitt, George David	<i>bs</i>	<i>Boston</i>	99 <i>Myrtle St.</i>
Lezberg, Joseph	<i>bs</i>	<i>Boston</i>	15 <i>Revere St.</i>
Maiello, Pasquale Edward	<i>bs</i>	<i>Providence, R. I.</i>	Dean, 9
Mantione, Rosario Leonard	<i>bs</i>	<i>Pittston, Pa.</i>	78 <i>Myrtle St.</i>
Mitchell, Isadore	<i>bs</i>	<i>Brockton</i>	West, 3
Moor, Erwin Charles	<i>bs</i>	<i>E. Lynn</i>	Commons Club
Olim, Jacob Joseph	<i>bs</i>	<i>South Boston</i>	66 <i>G St.</i>
Osgood, George Wesley, Jr.	<i>bs</i>	<i>Lynn</i>	West, 2
Peterson, Clarence Earl Edwin	<i>bs</i>	<i>Danielson, Conn.</i>	Dean, 5
Robillard, Emilien Oriese Rodrigue	<i>bs</i>	<i>Gardner</i>	East, 34
Roche, William James	<i>ab</i>	<i>Roxbury</i>	52 <i>Langdon St.</i>
Shea, Oscar Albert	<i>bs</i>	<i>Webster</i>	West, 6
Sullivan, John James	<i>ab</i>	<i>E. Boston</i>	23 <i>Boardman St.</i>
Vadillo, Andrés	<i>bs</i>	<i>Yucatan, Mexico</i>	East, 11

Supplementary List

(Students present during the second semester of 1916-17, but not appearing in the catalogue.)

Cassidy, Robert Valden	<i>sp</i>	<i>Webster</i>	50 <i>Princeton St., E. Boston</i>
Lyen, Charles Lewis	<i>bs</i>	<i>Boston</i>	29 <i>Audubon Rd.</i>
MacDonald, Ralph Reed	<i>bs</i>	<i>Burlington</i>	
Stern, Edward Alexander	<i>bs</i>	<i>Fargo, N. D.</i>	45 <i>Dunster Hall, Cambridge</i>
Tufts, Chester Warner	<i>bs</i>	<i>New York, N. Y.</i>	Paige, 1
Murphy, William Mansuetus	<i>bs</i>	<i>Arlington Heights</i>	35 <i>Ashland St.</i>

Jackson College for Women

DORMITORIES: Metcalf Hall, 56 Professors Row; Alpha House, 18 Latin Way; Richardson House, 28 Professors Row; Gamma House, 37 Sawyer Ave.; Delta House, 114 Professors Row.

Senior Class

Briggs, Katherine Emma	<i>ab</i>	<i>W. Medford</i>	Richardson, 10
Connolly, Margaret Agnes	<i>bs</i>	<i>Chelsea</i>	220 Parkway
Crosby, Genevieve	<i>ab</i>	<i>Hingham</i>	Metcalf, 1
Danver, Anna Dorothea	<i>ab</i>	<i>Glenbrook, Conn.</i>	Alpha, 5
Davies, Jane Stodder	<i>ab</i>	<i>Tufts College</i>	72 Professors Row
Deasy, Ella Marie	<i>ab</i>	<i>Chelsea</i>	98 Grove St.
Durkee, Margaret	<i>ab</i>	<i>Tufts College</i>	38 Professors Row
Glass, Ellen Melissa	<i>bs</i>	<i>Lexington</i>	Richardson, 1
Lewis, Grace Melden	<i>ab</i>	<i>W. Somerville</i>	Metcalf, 3
Morse, Laura Lucile	<i>ab</i>	<i>Arlington</i>	54 Brantwood Rd.
Newcomb, Bertha May	<i>bs</i>	<i>Portland, Me.</i>	Metcalf, 16
Nickerson, Muriel Nathalie	<i>ab</i>	<i>Chelsea</i>	139 Washington Ave.
Perkins, Doris	<i>ab</i>	<i>Burlington</i>	Richardson, 8
Sargent, Elizabeth Tilton	<i>ab</i>	<i>Winter Hill</i>	Alpha, 4
Semons, Gladys Milford	<i>ab</i>	<i>Manchester</i>	Metcalf, B
Ware, Kennetha Marguerite	<i>bs</i>	<i>Tufts College</i>	101 Capen St.

Junior Class

Brooks, Ruth Elvira	<i>ab</i>	<i>W. Medford</i>	40 Warren St.
Bullard, Cecelia	<i>ab</i>	<i>W. Somerville</i>	21 Kidder Ave.
Cole, Ruth Jeanette	<i>ab</i>	<i>Everett</i>	173 Broadway
Goldshine, Meriam	<i>bs</i>	<i>Everett</i>	161 Linden St.
Hardy, Helen Katherine	<i>ab</i>	<i>Andover</i>	Delta
Hill, Marion Colvin	<i>ab</i>	<i>Dorchester</i>	5 Carmen St.
Hinckley, Hilda	<i>ab</i>	<i>Hyannis</i>	Alpha, 3
Hyland, Mildred Elizabeth	<i>ab</i>	<i>Everett</i>	Metcalf, 3
Joel, Edith Marion	<i>ab</i>	<i>Fitchburg</i>	Metcalf, A
Lewis, Laura Wright	<i>ab</i>	<i>West Somerville</i>	44 Kidder Ave.
Little, Inga	<i>bs</i>	<i>Laconia, N. H.</i>	Metcalf, 7
Marland, Laura Northey	<i>ab</i>	<i>Ballard Vale</i>	Chester St.
McCoy, Dorothy Mary	<i>ab</i>	<i>Somerville</i>	62 Main St.
Neal, Martha Catharine	<i>ab</i>	<i>Derry, N. H.</i>	Alpha, 1
Perkins, Madeline Abby	<i>bs</i>	<i>Lynn</i>	Metcalf, 8
Rich, Mary Lindsey	<i>ab</i>	<i>N. Grosvenor Dale, Conn.</i>	Metcalf, 2
Richardson, Ethel Wheeler	<i>ab</i>	<i>Medford</i>	41 Royal St.
Robinson, Ruth Madaline	<i>ab</i>	<i>Worcester</i>	Metcalf, 4
Rockwell, Doris	<i>bs</i>	<i>Somerville</i>	133 Powder House Blvd.

Sherburne, Grace Noerr	<i>ab</i>	<i>Melrose</i>	Alpha, 6
Snow, Kathleyne Swift	<i>ab</i>	<i>Biddeford, Me.</i>	Metcalf, 12
Tasker, Lorna Bernay	<i>ab</i>	<i>Manchester, N.H.</i>	Delta
Wiltshire, Bertha May	<i>ab</i>	<i>Medford</i>	112 Dudley St.

Sophomore Class

Balzer, Anita Elizabeth	<i>bs</i>	<i>Meriden Conn.</i>	Gamma, 7
Bennett, Marion Ruby	<i>bs</i>	<i>Westbury, N. Y.</i>	Delta
Bernard, Madeline Elizabeth	<i>ab</i>	<i>Medford</i>	155 Jerome St.
Berry, Gertrude Wells	<i>ab</i>	<i>Andover</i>	Metcalf, 13
Brainard, Barbara Enola	<i>ab</i>	<i>Somerville</i>	82 Munroe St.
Brainard, Carolyn Lucie	<i>ab</i>	<i>Somerville</i>	82 Munroe St.
Caverno, Elizabeth Sherman	<i>ab</i>	<i>Lowell</i>	Richardson, 6
Cunningham, Dorothea Patricia	<i>ab</i>	<i>Medford</i>	64 Magoun Ave.
Cushing, Irene	<i>bs</i>	<i>Bethel, Vt.</i>	Metcalf, 10
Davis, Marie Viola	<i>ab</i>	<i>Winchester</i>	59 Parkway
Grant, Mary Agnes	<i>ab</i>	<i>Beverly</i>	Delta
Haynes, Gertrude May	<i>bs</i>	<i>Maynard</i>	Metcalf, 2
Jerauld, Phyllis Eldredge	<i>ab</i>	<i>Barnstable</i>	Delta
Kelley, Elfreda Alice	<i>ab</i>	<i>Marlboro, N. H.</i>	97 Curtis St., W. Somerville
Lane, Rachel Perin	<i>ab</i>	<i>Framingham</i>	Metcalf, 9
Lynch, Margaret Esther	<i>bs</i>	<i>Salem</i>	Richardson, 4
Marston, Edna Gertrude	<i>ab</i>	<i>Somerville</i>	81 Liberty Ave.
Matheson, Orpha Barnard	<i>ab</i>	<i>Provincetown</i>	Metcalf, B
Partridge, Aphra Marion	<i>ab</i>	<i>West Medford</i>	105 Boston Ave.
Perkins, Lillian Muriel	<i>ab</i>	<i>Medford Hillside</i>	12 Emery St.
Phillips, Marion Louise	<i>ab</i>	<i>Salem</i>	Metcalf, 7
Pigott, Madeleine Grace	<i>bs</i>	<i>N. Woburn</i>	19 Ward St.
Prager, Hortense Lucille	<i>bs</i>	<i>New York</i>	Delta
Rankin, Virginia Davis	<i>ab</i>	<i>South Easton</i>	Metcalf, 11
Rathburn, Georgia Ruth	<i>ab</i>	<i>Marlborough</i>	Delta
Reed, Madeline Winifred	<i>ab</i>	<i>Woodstock, Vt.</i>	71 Wallace St., W. Somerville
Shaw, Dorothy	<i>bs</i>	<i>Marblehead</i>	Richardson, 4
Starks, Gertrude Ethel	<i>bs</i>	<i>W. Medford</i>	54 Jackson Rd.
Tucker, Dorothy Frances	<i>ab</i>	<i>Randolph, Vt.</i>	Delta
Walker, Adèle Elvira	<i>ab</i>	<i>Braintree</i>	33 Sherbrooke Ave.
Wilde, Doris	<i>ab</i>	<i>Fairhaven</i>	Delta
Worth, Isabella Frances	<i>bs</i>	<i>Nantucket</i>	Gamma, 8

Freshman Class

Arnold, Edith Allen	<i>bs</i>	<i>Braintree</i>	Metcalf, C
Atherton, Eleanor	<i>bs</i>	<i>Medfield</i>	Alpha, 1

Atwater, Inez Marion	<i>bs</i>	<i>Somerville</i>	98 <i>Electric Ave.</i>
Bagley, Ruth Procter	<i>ab</i>	<i>Peabody</i>	Alpha, 7
Beverly, Mary Munson	<i>bs</i>	<i>Franklin</i>	Metcalf, 11
Blood, Dorothy Kendall	<i>bs</i>	<i>Fitchburg</i>	Delta
Bolonsky, Rose	<i>bs</i>	<i>Roxbury</i>	Gamma, 5
Bremner, Elsie Macdonald	<i>ab</i>	<i>W. Somerville</i>	17 <i>Russell Rd.</i>
Briggs, Marion Louise	<i>ab</i>	<i>W. Medford</i>	150 <i>Arlington St.</i>
Campbell, Anna Margaret	<i>ab</i>	<i>N. Weymouth</i>	Gamma, 3
Cheever, Helen	<i>ab</i>	<i>Manchester</i>	Metcalf, 13
Chilson, Grace Louise	<i>bs</i>	<i>Franklin</i>	Metcalf, 10
Danver, Alice Dowd	<i>ab</i>	<i>Glenbrook, Conn.</i>	Alpha, 5
Gallagher, Dorothy	<i>bs</i>	<i>Dorchester</i>	115 <i>Woodrow Ave.</i>
Geiger, Eleanor Chalmers	<i>bs</i>	<i>W. Somerville</i>	57 <i>Simpson Ave.</i>
Gelfand, Sara Samuels	<i>bs</i>	<i>Chelsea</i>	Gamma, 5
Glawson, Mildred Burton	<i>bs</i>	<i>Somerville</i>	Gamma, 6
Hayward, Hattie Frances	<i>ab</i>	<i>Hingham</i>	Richardson, 5
Hérshman, Bertha Vivian	<i>ab</i>	<i>Chelsea</i>	129 <i>Franklin Ave.</i>
Hoar, Elizabeth Allen	<i>ab</i>	<i>Barre, Vt.</i>	Metcalf, 6
Hudgens, Helen Inez	<i>ab</i>	<i>Ipswich</i>	Gamma, 8
Jackson, Helen Clifton	<i>ab</i>	<i>W. Somerville</i>	130 <i>Pearson Rd.</i>
Kellock, Grace Rhoda	<i>ab</i>	<i>Somerville</i>	29 <i>Teele Ave.</i>
Kellock, Isabella Margaret	<i>bs</i>	<i>W. Somerville</i>	22 <i>Dover St.</i>
Knight, Irma Jeannette	<i>bs</i>	<i>Somerville</i>	175 <i>Pearl St.</i>
Knowlton, Miriam Clifford	<i>ab</i>	<i>Lynn</i>	Richardson, 2
Lyle, Sadie Marion	<i>ab</i>	<i>W. Somerville</i>	25 <i>Lowden Ave.</i>
MacDonald, Evelyn Frances	<i>bs</i>	<i>Chelsea</i>	49 <i>William St.</i>
MacIntosh, Catherine	<i>bs</i>	<i>Winchendon</i>	Richardson, 2
Maertins, Gertrude Ella	<i>ab</i>	<i>Jamaica Plain</i>	207 <i>Chestnut Ave.</i>
Margolis, Dora	<i>bs</i>	<i>Chelsea</i>	132 <i>Franklin Ave.</i>
Masseck, Carol Luella	<i>bs</i>	<i>Arlington</i>	22 <i>Hopkins Rd.</i>
McHugh, Mary Rose	<i>bs</i>	<i>Somerville</i>	9 <i>Atherton St.</i>
Miller, Margaret Stuart	<i>ab</i>	<i>Bath, Me.</i>	Gamma, 3
Moody, Jeannette Dunbar	<i>bs</i>	<i>Cambridge</i>	41 <i>Roseland St.</i>
Moon, Dorothy	<i>bs</i>	<i>Chelsea</i>	Richardson, 3
Naylor, Catherine	<i>ab</i>	<i>Methuen</i>	Metcalf, C
Oakman, Mertie Frances	<i>bs</i>	<i>N. Marshfield</i>	Gamma, 1
Peirce, Marion Appleton	<i>ab</i>	<i>Arlington Heights</i>	11 <i>Appleton St.</i>
Pierce, Marguerite	<i>bs</i>	<i>Cambridge</i>	37 <i>Mt. Vernon St.</i>
Piercy, Eva May	<i>bs</i>	<i>Braintree</i>	374 <i>Washington St.</i>
Prendergast, Annie Mary	<i>ab</i>	<i>Concord Jct.</i>	361 <i>Main St.</i>
Prescott, Helen Louise	<i>ab</i>	<i>Braintree</i>	Gamma, 1
Press, Leila Channon	<i>ab</i>	<i>New York, N. Y.</i>	Metcalf, 14
Rogers, Helen Jacqueline	<i>bs</i>	<i>Quincy</i>	Metcalf, 6

Rowe, Herma Coffin	<i>bs</i>	<i>Manchester, N. H.</i>	Richardson, 5
Russell, Florence Miriam	<i>ab</i>	<i>Concord Jct.</i>	391 Main St.
Sculley, Mildred Josephine	<i>bs</i>	<i>Hamilton</i>	Hamilton Ave.
Simmons, Mildred	<i>bs</i>	<i>Mountville, S. C.</i>	Richardson, 3
Steere, Mildred Hazel	<i>bs</i>	<i>Somerville</i>	161 College Ave.
Steinberg, Minna	<i>ab</i>	<i>Boston</i>	29 Anderson St.
Stockwell, Madeline	<i>bs</i>	<i>W. Somerville</i>	9 Kidder Ave
Sullivan, Helen Mildred	<i>bs</i>	<i>Gleasondale</i>	Alpha, 7
Sundelöf, Karin Cecelia	<i>ab</i>	<i>Roxbury</i>	88 Moreland St.
Titlebaum, Ruth Miriam	<i>bs</i>	<i>Dorchester</i>	16 Fowler St.
Tuttle, Lula Belle	<i>bs</i>	<i>Broad Brook, Conn.</i>	Richardson, 9
Walker, Martha Doris	<i>bs</i>	<i>Newmarket, N. H.</i>	Gamma, 4
Wardwell, Edna Julia	<i>ab</i>	<i>Rockland</i>	Alpha, 3
Wonson, Isabelle	<i>bs</i>	<i>Fall River</i>	Richardson, 1
Yerrinton, Margaret Johnston	<i>ab</i>	<i>Arlington</i>	59 Jason St.

Unclassified

Hammons, Rosalynde	<i>ab</i>	<i>Allston</i>	182 Harvard Ave.
Harris, Lucy Woodbury	<i>ab</i>	<i>Auburn, Me.</i>	Metcalf, 15
Jackson, Marjorie Winthrop	<i>ab</i>	<i>W. Somerville</i>	130 Pearson Rd.
Leary, Louise Catherine	<i>ab</i>	<i>Roxbury</i>	20 Dorr St.
Leventhal, Sophia	<i>ab</i>	<i>Cambridge</i>	Richardson, 11
Moulton, Lillian Gertrude	<i>bs</i>	<i>Medford Hillside</i>	123 Winthrop St.
Putnam, Helen	<i>ab</i>	<i>Manchester, N. H.</i>	Delta

Special

Chamberlain, Dorothy Dean	<i>Boston</i>	Richardson House
Dyer, Marion Randall	<i>Cape Elizabeth, Me.</i>	Metcalf, 14

Supplementary List

(Students present during the second semester of 1916-17, but not appearing in the Catalogue.)

Lyle, Sadie Marion	<i>ab</i>	<i>W. Somerville</i>	25 Lowden Ave.
--------------------	-----------	----------------------	----------------

Engineering School

Senior Class

Aronson, Jesse Moses	<i>st e</i> Boston	80 Revere St.
Briggs, Albert Jeffries	<i>me</i> Watertown	Δ T House
Bronski, Leo Max	<i>st e</i> Dorchester	Φ E Π House
Clark, William Wells	<i>ce</i> Waltham	Commons Club
Cobb, Forrest Willard	<i>ch e</i> Waltham	Δ T Δ House
Drummev, James Joseph	<i>ch e</i> Revere	Σ T A House
Highriter, Harry Walter	<i>ch e</i> Meriden, Conn.	Z Ψ House
Hodgdon, Melvin Wyman	<i>me</i> Somerville	8 Indiana Ave.
London, Harry	<i>ch e</i> Dorchester	Φ E Π House
Loring, Warren Edward	<i>st e</i> Charlestown	9 Cedar St.
Maker, Charles Gilbert	<i>ce</i> Fall River	Φ E Π House
Nichols, Alfred Richard	<i>me</i> Dorchester	Δ T House
Norton, Edward Howd	<i>ch e</i> N. Westchester, Conn.	Δ T House
O'Marra, Frank Joseph	<i>me</i> Kingston, N. Y.	Θ Δ X House
Ratti, Augustus Peter	<i>st e</i> W. Everett	179 Bucknam St.
Rice, Harold De Blois	<i>ch e</i> Somerville	Σ T A House
Russell, Herbert Burgoyne	<i>st e</i> Jamaica Plain	A T Ω House
Segal, David	<i>ch e</i> Roxbury	Φ E Π House
Smith, Christopher Ilsley	<i>ce</i> Chatham	Σ T A House
Waghorne, Albert Charles	<i>ce</i> Melrose	Commons Club
Wainwright, Stuart Frederick	<i>ce</i> Andover	Paige, 29
Waldo, Hollis Thurlow	<i>me</i> Groveland	Commons Club
Walker, William Edward	<i>ch e</i> Orange	A T Ω House
Woodill, Harold William	<i>ce</i> Melrose	Commons Club
Zulalian, Badrig Barsam	<i>ce</i> Boston	16 Waltham St.

Junior Class

Abbott, Robinson	<i>ce</i> Malden	Commons Club
Bloom, Walfred George	<i>ce</i> Lynn	13 Carleton St.
Clough, Woodman Walter	<i>ch e</i> Stoneham	66 Wright St.
Cogswell, Burnham	<i>ee</i> Essex	East, 16
Davis, Daniel Louis	<i>me</i> Kendal Green	Φ Δ House
de Faria, Joas Jorge	<i>ce</i> Brazil	28 Dearborn Rd., Medford
DeFoe, Joseph Harry	<i>st e</i> Chelsea	105 Library St.
Demirjian, Nash Manook	<i>ch e</i> Newton Centre	155 College Ave., W. Somerville
Entwistle, Guy Russell	<i>ee</i> Brighton	Σ T A House
Falk, Arthur Herman	<i>me</i> Dorchester	307 Harvard St.
Finnell, Norman Croft	<i>ch e</i> Cambridge	66 Wendell St.
Ford, Horace Hills	<i>ch e</i> W. Somerville	22 Powder House Blvd.

Gallagher, Frank Joseph	<i>st e</i>	<i>Somerville</i>	81 <i>Benton Rd.</i>
Green, Richard Winthrop		<i>Winthrop</i>	East, 28
Harris, Richard Treat	<i>st e</i>	<i>Norwalk, Conn.</i>	Δ T House
Hayward, Ernest Lincoln	<i>st e</i>	<i>Arlington</i>	Δ T House
Hudson, Abel Clifford	<i>st e</i>	<i>Auburn, N. Y.</i>	A T Ω House
Hunnewell, Roger	<i>ce</i>	<i>Somerville</i>	Θ Δ X House
Kagan, Maurice	<i>ce</i>	<i>Boston</i>	77A <i>Revere St.</i>
Kimball, Harold Francis	<i>ee</i>	<i>Arlington</i>	Commons Club
Lincoln, Frank William, Jr.	<i>me</i>	<i>Somerville</i>	45 <i>Oliver St.</i>
Merrill, Carl Bixby	<i>ee</i>	<i>Medford</i>	92 <i>Otis St.</i>
Moodie, William Carmichael	<i>me</i>	<i>Southbridge</i>	Δ T House
Parnell, Eric	<i>ee</i>	<i>Medford</i>	Commons Club
Pennucci, Alexander	<i>ch e</i>	<i>East Boston</i>	Commons Club
Philpott, Herbert Charles	<i>ce</i>	<i>Arlington</i>	Commons Club
Piper, Arthur Maine	<i>ch e</i>	<i>Medford Hillside</i>	312 <i>Boston Ave.</i>
Reynolds, Kenneth Cass	<i>st e</i>	<i>W. Somerville</i>	231 <i>Morrison Ave.</i>
Rich, Richard Augustus, Jr.	<i>ee</i>	<i>Truro</i>	Φ Δ House
Ropes, Lawrence Goodhue	<i>st e</i>	<i>Salem</i>	Z Ψ House
Rosenauer, Moses Bernard	<i>ee</i>	<i>Somerville</i>	Φ E Π House
Rosenthal, Edward	<i>st e</i>	<i>Chelsea</i>	119 <i>Franklin Ave.</i>
Shepherd, Harold Nichols	<i>ch e</i>	<i>Lynn</i>	Commons Club
Walsh, James Henry	<i>st e</i>	<i>Somerville</i>	122 <i>Prospect St.</i>
White, Wallace Tirrell	<i>me</i>	<i>N. Attleboro</i>	A T Ω House

Sophomore Class

Adams, Walter Leslie, Jr.	<i>Milford</i>	Z Ψ House
Andersen, George	<i>Medford</i>	128 <i>Sheridan Ave.</i>
Ashton, Henry Clark	<i>Somerville</i>	33 <i>Columbus Ave.</i>
Baker, David Joseph	<i>Boston</i>	145 <i>Chambers St.</i>
Barrow, William Beasor, Jr.	<i>Birmingham, Ala.</i>	A T Ω House
Benson, Henry Wilhelm	<i>West Somerville</i>	6 <i>Boston Ave.</i>
Beyer, Israel	<i>Roxbury</i>	118 <i>Howland St.</i>
Bickford, Jason Frederick	<i>Somerville</i>	A T Ω House
Brothers, George William	<i>Hudson</i>	West, 14
Casey, Edward	<i>Tufts College</i>	28 <i>Dearborn Rd.</i>
Chernaik, Myer Joseph	<i>East Boston</i>	159 <i>Chelsea St.</i>
Clarke, John Haggett	<i>Somerville</i>	35 <i>Montrose St.</i>
Cole, Russell Eliot	<i>Somerville</i>	22 <i>Edmands St.</i>
Conn, Franklin Earle	<i>Auburndale</i>	A T Ω House
Cook, William Alfred	<i>Littleton</i>	West, 15
Crosby, Edwin Winslow	<i>West Medford</i>	Δ T House
Delaney, James Frank	<i>Dorchester</i>	19 <i>Hewins St.</i>
Delano, Edward Clyde	<i>Fall River</i>	East, 33

Dewey, Edson Eugene	Brookline	8 Cypress Place
Doucet, William Henry	Wakefield	37 Bennett St.
Dunham, John Wetherbee	W. Somerville	120 Powder House Blvd.
Finnegan, George Henry	Stoneham	11 Dean St.
Gifford, Frederic Anthony	Woburn	25 Lawrence St.
Gillmore, Reginald Waldo	N. Weymouth	46 Squanto Rd.
Ginsberg, Joseph Charles	East Boston	33 Decatur St.
Gladu, Francis Raymond	Cochituate	Stanton St.
Hartwell, Warren Emerson	Littleton	
Hastings, Raymond George	Weston	
Horenstein, Alexander	Tientsin, China	Φ E II House
Johnson, Arthur Harmon	Holden	Δ T House
Kelley, Thomas Urban	Revere	West, 1
Knight, Hugh Chatfield	Melrose Highlands	132 Melrose St.
MacAfee, John	Woodstock, N. B.	Δ T House
Macdonald, Donald Lewis	W. Somerville	72 Bristol Rd.
Marshall, Donald Leslie	W. Somerville	11 Bay State Ave.
Marshall, Irving Davis	Everett	A T Ω House
McGee, Harry Shirl	McKeesport, Pa.	East, 16
McNamara, Edmund Joseph	Clinton	West, 1
Mitsch, John Donald	Mattapan	10 Hazleton St.
Morgan, Carl Leon	Wolfboro N. H.	Φ Δ House
Pearlmutter, Hyman	Allston	4 Everett Sq.
Perry, Emmanuel von Betzen	Boston	Φ Δ House
Peterson, George Harry	Woburn	50 Lake Ave.
Pollard, James Joseph, Jr.,	W. Somerville	1091 Broadway
Porter, Harold Hill	Salem	A T Ω House
Pride, Alfred Melville	Somerville	150 Hudson St.
Rafferty, John Herbert Joseph	Cambridge	341 Columbia St.
Ratta, James Albert, Jr.,	W. Medford	13 Holton St.
Riley, Albert Joseph Germond	Chelsea	61 Bellingham St.
Roberts, Edward Bird	Hyde Park	53 Chandler St., W. Somerville
Rockwell, Walter Francis	Dorchester	Σ T A House
Sabine, Edward Dana, Jr.,	Yonkers, N. Y.	Θ Δ X House
Shoolman, David Leveton	Malden	West, 8
Simanofsky, Louis	Roxbury	44 Stanwood St.
Tibbetts, Frank Alliston	W. Somerville	223 Morrison Ave.
Walsh, Joseph Patrick	Somerville	122 Prospect St.
Wagh, Harry Edgar	Somerville	1 Lexington Ave.
Wilson, Edmund Geddes	Dorchester	Σ T A House
Wilson, Harold Olin	New York, N. Y.	Θ Δ X House
Wolk, Louis	Malden	37 Magnolia St.

Freshman Class

Baker, Samuel	<i>W. Somerville</i>	33 <i>Bay State Ave.</i>
Beck, George Paul	<i>Everett</i>	91 <i>Morris St.</i>
Blake, John Twiss	<i>Roslindale</i>	102 <i>Hewlett St.</i>
Booth, Thomas Eugene	<i>E. Boston</i>	160 <i>Leyden St.</i>
Brady, Albert Francis	<i>Somerville</i>	83 <i>Mt. Vernon St.</i>
Bradley, Robert Ivan	<i>N. Weymouth</i>	West, 3
Burke, George Murray	<i>Cochituate</i>	22 <i>E. Pond St.</i>
Burnside, Howard Leroy	<i>Everett</i>	Σ T A House
Callahan, Daniel Edward	<i>Lynn</i>	West, 25
Chandler, Frank Otho	<i>Lynn</i>	164 <i>Maple St.</i>
Cohen, James	<i>Roxbury</i>	25 <i>Hutchings St.</i>
Colucci, Steven	<i>N. Woburn</i>	East, 23
Cox, Joseph Francis	<i>Somerville</i>	100 <i>Albion St.</i>
Crowell, Henry Plummer	<i>Manchester, N. H.</i>	East, 1
Damon, Alfred Clayton	<i>Cochituate</i>	6 <i>Stanton St.</i>
Devine, Paul Francis	<i>South Boston</i>	787 <i>Broadway</i>
Doherty, John Leo	<i>Woburn</i>	32 <i>Wright St.</i>
Donovan, William Joseph	<i>Somerville</i>	49 <i>Belmont St.</i>
Esten, Eugene Whitcomb	<i>Littleton</i>	West, 14
Favreau, Felix Arthur	<i>Brighton</i>	67 <i>Dunboy St.</i>
Fitch, Roger Seabury	<i>Bridgewater</i>	Dean, 11
Gitter, Jacob	<i>Chelsea</i>	20 <i>Walnut St.</i>
Gorrie, Edward James	<i>Dorchester</i>	1 <i>Stockton St.</i>
Goverman, Israel Louis	<i>Cambridge</i>	525 <i>Windsor St.</i>
Graham, Francis Joseph	<i>Boston</i>	21 <i>Bowdoin St.</i>
Grant, Melville Fuller	<i>W. Medford</i>	11 <i>Brooks St.</i>
Hamill, Curtis Francis	<i>Stoneham</i>	18 <i>Park St.</i>
Hardy, John	<i>Littleton</i>	West, 14
Haskins, Lawrence Emerson	<i>Somerville</i>	6 <i>Tennyson St.</i>
Hayes, Elmer Russell	<i>Somerville</i>	18 <i>Benedict St.</i>
Herald, Charles Raymond	<i>Everett</i>	A T Ω House
Higgins, Theodore Rundlett	<i>Wollaston</i>	208 <i>Highland Ave.</i>
Hill, John Bliss	<i>Brooklyn, N. Y.</i>	East, 25
Kreagloh, Frank Holm	<i>Cambridge</i>	401 <i>Broadway</i>
Le Fevre, George Howard	<i>Norwood</i>	East, 24
Linde, Clarence Siverin	<i>So. Manchester, Conn.</i>	East, 33
Matthes, George F.	<i>Jamaica Plain</i>	20 <i>Lee St.</i>
McDonnell, Joseph James	<i>Roxbury</i>	9 <i>St. James St.</i>
Mitsui, Takahisahira	<i>New York, N. Y.</i>	Paige, 32
Mitsui, Takamichi		
Moore, Robert Thomas	<i>Waltham</i>	1 <i>Harvard St.</i>
Morse, Arthur Lewis	<i>Watertown</i>	Commons Club

Mortimer, Alfred Charles, Jr.	Winthrop	East, 6
Ober, Joseph Albert	W. Medford	43 Monument St.
Palmer, Charles Mulford	Boston	29 Norway St.
Pearson, Harrie Wheeler	Allston	East, 15
Pease, Brooks	W. Somerville	205 College Ave.
Peterson, Russell Robert	Clifondale	East, 8
Pillsbury, Roland Dixon	W. Somerville	9 Curtis St.
Pratt, Malcolm Field	Somerville	13 Evergreen Ave.
Purinton, Norman Wilson	Everett	Δ T Δ House
Reynolds, Chester Abel	W. Somerville	231 Morrison Ave.
Rockwell, Donald Edward	W. Somerville	133 Powder House Boulevard
Sawyer, Leonard Albert	Hartford, Conn.	74 Brookings St., Medford
Silverstein, Maurice Louis	Malden	280 Cross St.
Small, Willard Stanton, Jr.	Washington, D. C.	East, 8
Smith, Wendell Phillips	Stoneham	28 High St.
Snow, David Francis	Arlington	15 Lincoln St.
Spear, Henry Thompson	Nashua, N. H.	West, 1
Storrs, George Tyler	W. Somerville	55 Liberty Ave.
Taylor, Harry	Brighton	59 Fairbanks St.
Taylor, Harold Wood	Dorchester	East, 24
Taylor, Theodore Mitchell	Arlington Heights	178 Oakland Ave.
Thompson, John Earle	Reading	3 Grand St.
Tilton, Warner Belknap	Raymond, N. H.	Δ T Δ House
Towle, Albion Joseph	Freedom, N. H.	West, 7
Twombly, Francis Horatio	Framingham	Dean, 13
Tyler, Kenneth Ellsworth	Manchester	31 School St.
Wallace, Howard Arthur	Woburn	112 Garfield Ave.
Wallace, Merrill Gregory	W. Somerville	Σ T A House
Wiegand, Joseph Nicholas	Armington, Mont.	East, 20
Wright, Wells Dungan	Andover	Y. M. C. A., Somerville

Unclassified

Bradt, Dyer Crowell	Rome, N. Y.	East, 9
Heyman, Morris	New York, N. Y.	Φ E Π House
Kresser, Ernest Lawrence	Roxbury	49 Parker Hill Ave.
Lewis, Samuel Clinton	Meriden, Conn.	East, 15
Najarian, Matthew Oghasat	Nashua	36 Melendy Ave.
Sliski, John	Boston	78 Myrtle St.
Wang, Chih Ya	Peking, China	West, 18
Yang, Ching-Hsun	Changsha, China	West, 22

Supplementary List

(Students present during the second semester of 1916-17, but not appearing in the catalogue.)

Brandt, John T.	<i>Wooster, O.</i>	19 Day St., Somerville
MacAfee, John	<i>Woodstock, N. B.</i>	East, 21

Bromfield-Pearson School

Bergstrom, Carl Freetiof	<i>E. Lynn</i>	150 Jenness St.
Costa, Mario Pereira da	<i>Brookline</i>	93 Marion St.
Cohen, Ephraim	<i>London, England</i>	Dean, 9
Cox, William	<i>Revere</i>	East, 4
Garside, George Herbert	<i>Meriden, Conn.</i>	East, 19
Haines, Joseph Edward	<i>Jamaica Plain</i>	4 Dalrymple St.
Huss, Edward Harry	<i>Newark, N. J.</i>	East, 3
Kimball, Arthur Reginald	<i>Hingham</i>	Dean, 2
Kirshtein, Samuel	<i>Revere</i>	East, 4
Leary, Arthur Vincent	<i>Medford</i>	7 Pleasant St.
Lee, Walter Henry	<i>Dorchester</i>	Φ E Π House
Lindell, Nils Gustaf	<i>Medford</i>	42 Alexander Ave.
MacKay, Milton A.	<i>Cliftondale</i>	4 Danforth Ave.
McCafferty, Joseph Edward	<i>Jamaica Plain</i>	28 Holbrook St.
Moffie, Saul Elias	<i>Roxbury</i>	53 Humboldt Ave.
Myers, Benjamin	<i>Chelsea</i>	26 Grove St.
Shuman, Alton Brooks	<i>Malden</i>	15 Revere St.
Simpson, John Fred, Jr.	<i>The Weirs, N. H.</i>	East, 6
Tobey, Philip Calvin	<i>Roxbury</i>	17 Humboldt Ave.
Turner, Harold Melvin	<i>Norwell</i>	East, 9

Crane Theological School

SIX-YEAR COURSE

Fifth Year

Colcord, Elmer Danforth	<i>bs-bd Pittsfield, Me.</i>	Paige, 7
-------------------------	------------------------------	----------

Fourth Year

Cole, Alfred Storer	<i>bd Buckfield, Me.</i>	Paige, 27
Smith, Isaac	<i>bd Gardner</i>	32 Osgood St.

Second Year

Kellock, James Bryden	<i>bs-bd Somerville</i>	22 Dover St.
Walker, Edgar Ruston	<i>bs-bd Cambridge</i>	Paige, 25

First Year

Newton, Ernest Lincoln	<i>ab-bd Medford</i>	67 Newbern Ave.
------------------------	----------------------	-----------------

Special

Carr, Allan La Motte	<i>Manchester, N. H.</i>	Paige, 19
Cuomo, Taskko	<i>Utica, N. Y.</i>	Paige, 12
Dehly, Gerhard	<i>W. Medford</i>	233 Arlington St.
Franc, Samuel Edward	<i>Chicago, Ill.</i>	Paige, 15
Hubon, Charles Wilson	<i>Salem</i>	Paige, 31

Unclassified

Drummond, Chester Arthur	<i>Somerville</i>	29 Central St.
Earll, Irene, (A.B.)	<i>Medford Hillside</i>	14 Fairmount St.
Taylor, Henry Butterfield	<i>W. Somerville</i>	123 College Ave.

Graduate School

Resident

DURKEE, HENRIETTA NOBLE		38 Professors Row
<i>A.M., 1895 First Year History</i>		
EDMANDS, LILLIAN RICE	<i>W. Somerville</i>	10 Jay St.
<i>A.B. (Mt. Holyoke) First Year Biology</i>		
HAYWARD, ELEANOR	<i>Boston</i>	32 Peterboro St.
<i>B.S., 1915 (Simmons) Second Year Political Science</i>		
HORNE, ELIZABETH AMY	<i>Beverly</i>	46 Abbott St.
<i>A.B. 1904 (Boston University) First Year French and Education</i>		
MACKNIGHT, ANNETTE BASSFORD	<i>New York City</i>	Gamma, 2
<i>A.B., 1914 First Year English</i>		
WHITING, MAISIE BLANCHE	<i>Lynn</i>	<i>English High School</i>
<i>A.B. 1904 (Boston University) First Year French and Education</i>		

Non-Resident

FIELD, ABBY RUGG	<i>W. Somerville</i>	152 Curtis St.
<i>A.B., 1913 First Year Latin and Greek</i>		
LYBECK, ROBERT FERDINAND	<i>W. Medford</i>	<i>Mystic Valley Parkway</i>
<i>B.S., 1915 Second Year Chemistry</i>		

Two-Year Pre-Medical Course

[P. O. Address, 28 Mechanics Street, Boston, Mass.]

Adelson, Samuel	<i>Newport, R. I.</i>
Alberts, Milton Benjamin	<i>Dorchester</i>
Altman, Joseph Harry	<i>Brockton</i>
Apple, Bernard	<i>Boston</i>
Atkins, Samuel Maurice	<i>Boston</i>
Baker, Norman Asa	<i>Revere</i>
Balboni, Alexander Edward	<i>Cambridge</i>
Barron, Louis Jacob	<i>Brockton</i>
Batal, John Thomas	<i>Lawrence</i>
Bellano, George	<i>Providence, R. I.</i>
Bennett, Max	<i>Revere</i>
Bennett, Warren Leroy, A.B. (Bates College)	<i>North Bridgton, Me.</i>
Bergeron, Charles Arthur	<i>Fall River</i>
Berlin, David Daniel	<i>Dorchester</i>
Billard, Emmanuel William	<i>Newport, R. I.</i>
Bloomberg, John Rubin	<i>Boston</i>
Bolster, John Aloysious	<i>Providence, R. I.</i>
Braunstein, Sigmund	<i>Newark, N. J.</i>
Brennan, Jeremiah Francis	<i>Brighton</i>
A.B. (Boston College)	
Brennan, Earle Henry	<i>Providence, R. I.</i>
Briggs, Harry Goddard	<i>North Attleboro</i>
Bunnell, Stuart Dyer	<i>Revere</i>
Burnett, Arthur Grant	<i>West Somerville</i>
Caswell, Harold Augustus	<i>Manchester, N. H.</i>
Cohen, Abraham Irving	<i>Roxbury</i>
Cohen, Louis Morris	<i>New Bedford</i>
Cohen, Theodore	<i>Boston</i>
Cohen, William Benjamin	<i>Providence, R. I.</i>
Consales, Peter Augustine	<i>Boston</i>
Consentino, Albert	<i>Lawrence</i>
Cook, George Francis	<i>Norwich, Conn.</i>
Curley, John Joseph	<i>Marlboro</i>
Curtin, John Francis	<i>Lawrence</i>
Cutler, Benjamin	<i>Chelsea</i>
Daley, Joseph Arthur	<i>South Natick</i>
D'Angelo, Andrew Richard	<i>Everett</i>

Davis, David	<i>Dorchester</i>
Decker, Percy William	<i>Waltham</i>
DeGroot, Max	<i>Dorchester</i>
D'Errico, Emilio	<i>Roxbury</i>
Dewire, William Francis	<i>Somerville</i>
Downey, Edward Thomas	<i>Marlboro</i>
Downey, Thomas, Jr.	<i>Jamaica Plain</i>
Driscoll, John Joseph	<i>South Boston</i>
Drukman, Samuel	<i>Cambridge</i>
Duggan, George Joyce	<i>Lynn</i>
Durney, Paul Seymour	<i>Boston</i>
Edlin, Jacob Vernon	<i>New Bedford</i>
Ekwall, Thorsten Roland	<i>Waltham</i>
Estabrook, Milton	<i>Arlington Heights</i>
Faunce, Madeline Maria	<i>Mattapan</i>
Feinberg, Banice	<i>Providence, R. I.</i>
Feinstein, Louis	<i>Providence, R. I.</i>
Fish, Samuel	<i>Dorchester</i>
Fisher, Jacob, Jr.	<i>Boston</i>
Fladger, Louis	<i>Marblehead</i>
Fletcher, Helen Augusta	<i>South Boston</i>
Flynn, William Anthony	<i>Cambridge</i>
Fong, Theodore Chen	<i>Boston</i>
Foster, Kendall Wilson	<i>Boston</i>
Fox, Samuel	<i>Malden</i>
Fuxon, Samuel	<i>Portland, Me.</i>
Gelman, Joseph Max	<i>Brighton</i>
Goldfarb, Daniel Charles	<i>Boston</i>
Gorton, Samuel Potter	<i>Norwich, Conn.</i>
Graves, John Oliver	<i>West Newton</i>
Gray, Edward John	<i>Dorchester</i>
Green, David Samuel	<i>Dorchester</i>
Green, Isadore	<i>Roxbury</i>
Gregory, George Richard	<i>Pittsfield</i>
Hanes, Harold Stuart	<i>Melrose Highlands</i>
Harris, Maurice Coleman	<i>Lawrence</i>
Holden, William Hall	<i>Lynn</i>
Holmberg, Clarence	<i>Great Falls, Montana</i>
Honold, William George	<i>W. Somerville</i>
Isherwood, Ainsworth Varnum	<i>Lowell</i>
Jacobs, Harris Reuben	<i>East Boston</i>
Johnson, Carl John	<i>Wethersfield, Conn.</i>
Jones, James Jesse	<i>Bridgeport, Conn.</i>

Jordan, Mrs. Sara Murray	<i>Newton</i>
A.B. (Radcliffe), Ph.D. (Munich)	
Joyce, Daniel Leo	<i>Woburn</i>
Katz, Isadore Adams	<i>Fall River</i>
Kelleher, William Lawrence	<i>Marlboro</i>
Kelley, Julius Goddard	<i>Dennis Port</i>
Klein, Bernard Jacob	<i>Brockton</i>
Lamb, Edward James	<i>Quincy</i>
Laudati, Flavio Henry	<i>Providence, R. I.</i>
Levenson, Albert	<i>Boston</i>
Levin, Samuel Max	<i>Malden</i>
Lewis, Israel Bernard	<i>Roxbury</i>
Lipsher, Leo	<i>Roxbury</i>
Littlefield, William Dean	<i>Berwick, Me.</i>
Locke, Samuel Simon	<i>Winchester</i>
Loitman, Clara	<i>Dorchester</i>
Lord, Myron Otis	<i>Kezar Falls, Me.</i>
Lynch, Charles Edward	<i>Boston</i>
Mades, Myer Leonard	<i>Chelsea</i>
Mahoney, Joseph Aloysius	<i>Lawrence</i>
Malinsky, John Peter	<i>Bridgewater</i>
Malinsky, Myer	<i>East Boston</i>
Maxwell, Bernard Love	<i>Somerville</i>
Mayer, Walter Henry	<i>Allston</i>
McKivergan, Charles Frederick	<i>Providence, R. I.</i>
McMackin, John Vinson	<i>Revere</i>
Merlin, Samuel Abraham	<i>Boston</i>
Merrill, Frederick Guy, Jr.	<i>Amesbury</i>
Milstein, Abraham	<i>Boston</i>
Mirkin, Annie	<i>Boston</i>
Moran, Joseph Francis	<i>Taunton</i>
Moran, Thomas Edward	<i>Worcester</i>
Moriarty, William Thomas	<i>Holyoke</i>
Mullholland, Walter Edward	<i>Portsmouth, N. H.</i>
Murphy, Eugene Francis	<i>Dover, N. H.</i>
Newman, Ernest	<i>Roxbury</i>
Olson, Bertha Catherine	<i>Worcester</i>
Padorella, Americo Joseph	<i>Newport, R. I.</i>
Parsons, Neil Lehan	<i>Dorchester</i>
Piasta, Peter Ferdinand	<i>Webster</i>
Pickwick, Harold Curtis	<i>Manchester, N. H.</i>
Picozzi, John Avand	<i>Providence, R. I.</i>
Prior, Earle Francis	<i>Melrose</i>

Quinn, William Ambrose	<i>Dorchester</i>
Rafferty, George Edward	<i>Lynn</i>
Rapp, Louis William	<i>New Britain, Conn.</i>
Rogal, Sidney Bernard	<i>Allston</i>
Ross, Donald	<i>Central Falls, R. I.</i>
Ross, Margaret Blanche	<i>Holyoke</i>
Rubinstein, Samuel	<i>Fall River</i>
Russman, Charles	<i>Lawrence</i>
Schraut, Louis Carl	<i>South Braintree</i>
Schupack, Samuel David	<i>New Britain</i>
Scott, Charles Robert, Jr.	<i>Amesbury</i>
Shapiro, Jacob	<i>Boston</i>
Sidel, Nathan	<i>Dorchester</i>
Sinreich, Louis Isadore	<i>Newport, R. I.</i>
Small, Abraham Solomon	<i>Dorchester</i>
Smith, Atherton Carlyle	<i>Rockland</i>
Solin, Anne Ethel	<i>Chicopee</i>
Spaulding, Harold Archibald	<i>Roxbury</i>
Stone, Charles Clifford	<i>Clinton</i>
Sweeney, James Joseph	<i>Troy, N. Y.</i>
Titelbaum, Barnett Charles	<i>Boston</i>
Toltz, Julius Burt	<i>Chelsea</i>
Triedman, Harry	<i>Haverhill</i>
Ventura, Francis De Salles	<i>Fall River</i>
Vickers, Albert Henry	<i>Cambridge</i>
Whitney, Ezra Augustus	<i>Springfield</i>
Wilbur, Frank Maurice	<i>Taunton</i>
Wong, Nellie Choy	<i>S. Pasadena, Cal.</i>
Young, Ralph Oscar	<i>Charlestown, N. H.</i>
Zorolow, Abraham Marsel	<i>Somerville</i>

Medical School

[P. O. Address, 416 Huntington Ave., Boston, Mass.]

Fourth Year

Armstrong, Irving Foster	<i>Marlboro</i>
Atkinson, Roderick Melville	<i>Jamaica, B.W.I.</i>
Burke, Edward Francis, Ph.G. (Columbia Univ.)	<i>Providence, R. I.</i>
Caruso, Septimio	<i>Roslindale</i>
Cohen, Newman	<i>Dorchester</i>
Colton, Hubert Porter	<i>Dorchester</i>
Corea, George Thomas	<i>Boston</i>
Cranz, Alwin Henry	<i>Brookline</i>
Cunningham, Thomas Patrick	<i>Pascoag, R. I.</i>
Dahlen, Carl Albert	<i>Roxbury</i>
David, Jesse Mirza	<i>Chicago, Ill.</i>
Dunphy, Pierce James, A.B. (Holy Cross Coll.)	<i>Boston</i>
Emard, George Adelbert	<i>Mansfield</i>
Ph.C., Phm.D. (Mass. Coll. Pharm.)	
Feldman, Aaron	<i>Boston</i>
Gately, George Lynde	<i>Melrose</i>
Goldberg, Max Manus	<i>Lynn</i>
Goldman, Harry	<i>Roxbury</i>
Golini, Carlotta Nicholas	<i>Providence, R. I.</i>
Greenberg, Boris Efim	<i>Dorchester</i>
Guzzetta, Anthony James	<i>Avon, N. Y.</i>
B.S. (Univ. of Rochester)	
Harris, Walter Callahan	<i>Millbury</i>
A.B. (Holy Cross Coll.)	
Hatt, Rafe Nelson	<i>West Paris, Me.</i>
Hook, Marion,	<i>St. Leonards-on-Sea, England</i>
A.S.A., (Asst. Soc. of Apothecaries, England)	
Israel, Joseph Gilbert	<i>Fitchburg</i>
Jackson, Howard LaFayette	<i>Wells Bridge, N. Y.</i>
Jankelson, Isaac Rudolph	<i>Roxbury</i>
Kane, Edna Newell Sypher	<i>Boston</i>
Litch, William Isidore, D.M.D. (Tufts College)	<i>Roxbury</i>
Lokrantz, Sven Richard	<i>Stockholm, Sweden</i>
MacDonald, Joseph C.	<i>Beloit, Kansas</i>

Maroney, Frederick William	<i>Springfield</i>
Mason, Harry Edison	<i>Cambridge</i>
McAlpine, Alfred Freeman	<i>Somerville</i>
McDonald, Ray Thomas, A.B. (Tufts College) .	<i>Medford</i>
McNamara, John Ignatius	<i>Taunton</i>
Meledy, Joseph Aloysius	<i>Providence, R. I.</i>
Meltzer, Philip Edward, D.M.D. (Tufts College)	<i>Roxbury</i>
Moran, Andrew Charles, A.B. (Holy Cross Coll.)	<i>Fall River</i>
Morris, James Benjamin Jr.	<i>Cape Verde Island, Portugal</i>
Mulhern, Joseph Patrick, A.B. (Holy Cross Coll.)	<i>Boston</i>
Neill, Roberta Estella	<i>Holyoke</i>
Nichols, Guy Edward	<i>Wilmington</i>
Nickum, John Stanley	<i>Allentown, Penna.</i>
O'Connor, Alfred Smith A.B. (Holy Cross Coll.)	<i>Worcester</i>
Otis, Fessenden Newport	<i>Meriden, Conn.</i>
Parker, Charles Clinton, Jr.	<i>Roxbury</i>
Polakewich, Isaac	<i>Biddeford, Me.</i>
Pratt, Ernest Frederick	<i>Lowell</i>
Resnik, Joseph, B.S. (Columbia Univ.)	<i>Roxbury</i>
Robinson, Bernard Herman	<i>Roxbury</i>
Rockwell, Llewellyn Harrison	<i>Roxbury</i>
Rosen, Kermit Charles	<i>Dorchester</i>
Rowley, Philip William	<i>Gloucester</i>
Sannella, Salvatore	<i>Springfield</i>
Saphirstein, Hyman	<i>Boston</i>
Sarason, Lillian	<i>Brooklyn, N. Y.</i>
Sawyer, Edward Julius	<i>Gardner</i>
Shaw, John	<i>Bronx, N. Y.</i>
Shubert, Julius	<i>Boston</i>
Steffen, Anna Elizabeth, A.B. (Oberlin Coll.)	<i>Vermilion, Ohio</i>
Strammer, Myron Abner	<i>Boston</i>
Sullivan, Russell Francis	<i>Melrose</i>
Swasey, Ednah Evitts	<i>Salem</i>
Tanner, Monroe Julius	<i>Meriden, Conn.</i>
Tooker, Harold Clifton, Ph.B. (Brown Univ.)	<i>Larchmont, N. Y.</i>
Trombley, Walter Vincent	<i>Broad Brook, Conn.</i>
Troupin, Abraham Solomon	<i>Stamford, Conn.</i>
Van Gaasbeek, Harold	<i>Boston</i>
Villone, Anthony Joseph	<i>New York, N. Y.</i>
Walsh, Jeffrey James, D.M.D. (Tufts College)	<i>Fall River</i>
Wheeler, William Davidson	<i>Roxbury</i>
Woodside, John Nelson	<i>Watertown</i>
Woolverton, Edgar Frank	<i>Woodstock, N. B.</i>

Third Year

Alden, Carmi Rupert	<i>Whitman</i>
Barnard, Frederick Joseph	<i>Meriden, Conn.</i>
Barstow, Carl Elijah	<i>Waltham</i>
Bartlett, Frank Herbert, Jr.	<i>East Lynn</i>
Baxley, Haughton Whitridge	<i>East Boston</i>
Brackett, Nathaniel Parker	<i>Waltham</i>
Byrnes, James Edmund	<i>Holyoke</i>
Cappiello, Silvestro	<i>Providence, R. I.</i>
Carey, Joseph Henry	<i>Manchester</i>
Davis, Harry Eugene	<i>Portland, Me.</i>
Deitch, John	<i>Boston</i>
Dennen, Edward Henry	<i>Gloucester</i>
Devere, Earl Robert	<i>Providence, R. I.</i>
Devin, William Francis	<i>Westboro</i>
Donovan, William James	<i>Norwood</i>
Dushinsky, Samuel Sydney	<i>East Boston</i>
Eagan, Owen Louis	<i>Fall River</i>
Entwistle, Clayton Ross	<i>Monson</i>
Feldman, Louis	<i>Boston</i>
Fitch, Emmett Chandler	<i>Mooers, N. Y.</i>
Fitzgerald, Joseph William	<i>Jamaica Plain</i>
Fleury, Oswald Theodore	<i>South Norwalk, Conn.</i>
Forsley, Thomas, Jr.	<i>Manchester, N. H.</i>
Friborg, Joseph Nathaniel	<i>Manchester, N. H.</i>
Fryburg, Charles August	<i>Worcester</i>
Gallagher, James Francis, A.B. (Boston College)	<i>Newton Centre</i>
Gibson, Howland Allan	<i>Newport, R. I.</i>
Gilman, William Henry	<i>Cambridge</i>
Golden, Harry	<i>Somerville</i>
Gordon, John Hurter, B.A. (Univ. of South)	<i>Washington, D. C.</i>
Gosian, Moses	<i>Dorchester</i>
Hennigar, Beatrice Almore (A.B. Acadia Univ.)	<i>Chester Basin, N. S.</i>
Honey, Florence Emerson	<i>Spencer</i>
Hooper, George Henry	<i>Iron Mountain, Michigan</i>
Israelian, Agnes Grace	<i>Burlington</i>
Jackson, Edward Joseph	<i>Fall River</i>
Johnson, Harold Henry	<i>Boston</i>
Kaplan, Jacob Copel	<i>Roxbury</i>
Koppel, William	<i>Boston</i>
Korb, Harry	<i>Roxbury</i>
Korolick, George Gordon	<i>Boston</i>
Lancey, Clifford Scales	<i>Townsend</i>

Landry, Leonard Pierre	<i>Boston</i>
Levethan, Samuel Theodore	<i>Roxbury</i>
A.B. (Tufts College)	
Lindblad, Eric Harry	<i>Avon</i>
Mackey, Charles Edward	<i>South Boston</i>
Mahoney, Ralph Patrick	<i>Portland, Me.</i>
Mahoney, William Anthony	<i>Providence, R. I.</i>
Mandeville, Ernest Arthur	<i>Holyoke</i>
Martin, Arthur Ellerby	<i>Providence, R. I.</i>
Matteo, Frank Irving	<i>Providence, R. I.</i>
Ph.G. (Rhode Island College of Pharmacy)	
McKenney, Frederic William	<i>Lynn</i>
McLaughlin, James Francis	<i>Manchester, N. H.</i>
McLaughlin, Joseph Henry	<i>East Weymouth</i>
Mengel, John Hehn	<i>Easton, Penna.</i>
Meunier, Raymond Royale	<i>Indian Orchard</i>
Milward, Francis William, Jr.	<i>East Boston</i>
A.B. (Boston College)	
Miner, Harold Cranston, A.B. (Brown Univ.)	<i>East Greenwich, R. I.</i>
Morein, Samuel	<i>Providence, R. I.</i>
Mullen, Walter John, A.B. (Holy Cross College)	<i>Newton Highlands</i>
Murphy, Albert Bernard	<i>Waltham</i>
Murphy, John Michael	<i>Abington</i>
Nash, Francis Joseph	<i>Westboro</i>
Normandin, Louis Adolphus, Jr.	<i>Swansea Centre</i>
Ormsby, Edward Bernard	<i>Dorchester</i>
Paige, Wilbur Myrtland	<i>Lynn</i>
Penn, Harry	<i>Lawrence</i>
Phillips, Karl Tristram	<i>Amesbury</i>
Raleigh, Walter Melvin	<i>Springfield</i>
Reynolds, Francis Albert	<i>Dorchester</i>
Rittner, Max	<i>Boston</i>
Robert, John Baptiste Wilfred	<i>Tilton, N. H.</i>
Rousseau, Wilfred Joseph	<i>New Bedford</i>
Ruggles, Ralph Hastings	<i>Dorchester</i>
Saunders, Sallie Harding	<i>West Medway</i>
Savard, Arthur Joseph	<i>Bristol, Conn.</i>
Sciaraffa, John Maria	<i>East Orange, N. J.</i>
Segal, Joseph Nathaniel	<i>Boston</i>
Shay, Edward Francis	<i>Fall River</i>
Sheehan, George Timothy	<i>Manchester, N. H.</i>
A.B. (Mt. St. Joseph College)	
Silberg, Morris Abraham	<i>Boston</i>
Silverman, William Yale	<i>Revere</i>

Spellissy, Frank Thomas	<i>Marlboro</i>
Sporn, Abram	<i>Springfield</i>
Steinberg, Naaman	<i>Roxbury</i>
Tashian, Hovnan Nazaret	<i>Boston</i>
Tilton, Warren Norwood	<i>New Bedford</i>
Vershow, Nathan	<i>Boston</i>
Webber, Joseph Bernard	<i>Mattapan</i>
Weymouth, Currier Clyde	<i>Kingfield, Me.</i>
White, Earl Russell	<i>Attleboro</i>
Whitehead, William Levi, A.B., (Clark Univ.)	<i>Eastman, Ga.</i>
Wolfson, Louis Elijah	<i>Roxbury</i>
Wunderly, Walter Spencer	<i>Nazareth, Penna.</i>
Yorshis, Philip	<i>Boston</i>

Second Year

Benson, Clarence Kirk	<i>Dedham</i>
Boland, Benedict Fenwick, A.B. (Tufts College)	<i>Worcester</i>
Boruchoff, Henry	<i>Malden</i>
Braverman, Aaron Harry	<i>Roxbury</i>
Brennan, Margaret Elizabeth	<i>East Lynn</i>
Brothers, John Henry	<i>Providence, R. I.</i>
Burke, John Edward, A.B. (Boston College)	<i>South Natick</i>
Capecelatro, Alfonso	<i>New Haven, Conn.</i>
Chaprasdian, Mihran Abraham	<i>Boston</i>
A.B. (Central Turkey College)	
Connors, Thomas Aquinas	<i>Mattapan</i>
Connors, Raymond Earl	<i>Providence, R. I.</i>
Cooper, Olive Alfreda	<i>Revere</i>
Cormier, Evariste Alfred	<i>Leicester</i>
Coulson, Herbert	<i>Lawrence</i>
Cruikshank, Frank Sheppard	<i>Dorchester Centre</i>
DeCesare, Nicandro Francis	<i>Lawrence</i>
Desmond, Margaret Ellen	<i>Beverly</i>
Dougherty, Edward Francis, Jr.	<i>Woonsocket, R. I.</i>
Dowd, Aloysius Francis	<i>Manchester, N. H.</i>
Dubins, Joseph Arthur	<i>Dorchester</i>
Dunphy, John Joseph, Jr.	<i>Boston</i>
Edmunds, Charles Storer	<i>Boston</i>
Fulstow, Marjorie	<i>Norwalk, Ohio</i>
Gagnon, Jules Octave	<i>Manchester, N. H.</i>
Galleani, Ilia	<i>Wrentham</i>
Geist, Frederick Denkmar	<i>Brookline</i>
Genest, Aloria Henry	<i>Indian Orchard</i>

Gilroy, Lester James	<i>Attleboro</i>
Glickman, Helene Sarah	<i>Springfield</i>
Gould, Robert Louis	<i>East Boston</i>
Grenberg, Charna	<i>Shanghai, China</i>
Grossman, Samuel	<i>Taunton</i>
Guijarro, Antonio	<i>Bayamon, P. R.</i>
Hanson, Lester Arthur	<i>Worcester</i>
Hanszowski, Pauline Kathryn	<i>Ware</i>
Harrington, Elmer Joseph	<i>Holyoke</i>
Heimlich, Fred	<i>Lynn</i>
Herrero, Blas Carlos	<i>Corozal, P. R.</i>
Hogan, Daniel John	<i>Charlestown</i>
Horan, Thomas Benedict	<i>Fall River</i>
Horan, William Augustine	<i>Fall River</i>
Ingalls, Raymond George	<i>Berlin, N. H.</i>
Iovanna, Nicholas	<i>Revere</i>
Jellis, Walter	<i>Manchester, N. H.</i>
Joress, Mark Harry	<i>Roxbury</i>
Joyce, Roland Joseph	<i>Nashua, N. H.</i>
Kaplan, Julius Arthur	<i>Malden</i>
Kassees, Saad Hanna	<i>Palestine, Jerusalem</i>
Kerkhoff, Mary Edith	<i>Attleboro</i>
Knowlton, Donald Swett	<i>Fairfield, Me.</i>
Kotler, Moses George	<i>Boston</i>
Kramer, Louis Irving	<i>Providence, R. I.</i>
Lavelle, Gertrude Helen	<i>Natick</i>
LeMarbre, Albert Edward	<i>Salem</i>
Levy, Phillip Earle	<i>Holliston</i>
Littlehale, Roy Frederic	<i>Needham Heights</i>
Lutecki, Bronislaw	<i>Boston</i>
Mace, Roswell Greenwood	<i>Huntington</i>
MacKinnon, Irville Herbert	<i>Attleboro</i>
Manus, Harry Martin	<i>Brooklyn, N. Y.</i>
McCusker, Henry Francis	<i>Providence, R. I.</i>
McDonald, William James	<i>Westboro</i>
McLean, John Cassidy Joseph	<i>Holyoke</i>
McSweeney, Joseph Henry	<i>Somerville</i>
Montgomery, David Henry	<i>Providence, R. I.</i>
Moses, Alvin Raymond	<i>Lynn</i>
Nadel, Samuel	<i>Dorchester</i>
Olans, Herman	<i>Roxbury</i>
Oslin, John Francis	<i>Providence, R. I.</i>
Pelchie, William Joseph	<i>Shelburne Falls</i>

Pendola, Anthony Salvatore	<i>Brooklyn, N. Y.</i>
Peterson, Carl Adrian Rudolf	<i>Falmouth</i>
Phelan, Robert Emmet, B.A. (Yale Univ.)	<i>New Haven, Conn.</i>
Poirier, Armand Charles	<i>Fairhaven</i>
Randall, Guy Charles	<i>Lowell</i>
Rice, Charles	<i>Dorchester</i>
Robbins, Herman, A.B., M.F. (Harvard Univ.)	<i>Jamaica Plain</i>
Roberson, Tracey Lloyd	<i>Tunkhannock, Penna.</i>
Roberts, Harry Lewis	<i>Springfield</i>
Rondeau, Leo Garrigan	<i>North Brookfield</i>
Rotman, Nelson	<i>Dorchester</i>
Russell, Wilson James	<i>Manchester, N. H.</i>
Rust, George Stevens	<i>Manchester</i>
Ryan, James Bernard	<i>Easthampton</i>
Sacks, Albert David Henry	<i>Boston</i>
Siragusa, James Joseph	<i>Boston</i>
Smith, Stephen Munro	<i>Little Falls, N. Y.</i>
Smith, William Russell, A.B. (Holy Cross)	<i>Taunton</i>
Stamas, Theodore Albert	<i>Haverhill</i>
Sterns, Albert Henry	<i>New Bedford</i>
Stern, Maxwell	<i>Chelsea</i>
Stone, Moses Jacob	<i>Dorchester</i>
Sweeney, William Joseph	<i>Newburyport</i>
Veve, Miguel, Jr.	<i>Luquillo, P. R.</i>
Weinberg, Philip Barron	<i>Brockton</i>
Weissman, Ruth	<i>Boston</i>
Welch, John Laurence, A.B.	<i>Brockton</i>
West, Gustav Fredrick	<i>Boston</i>
Woodman, Marjorie	<i>West Medway</i>
Zacks, David	<i>Taunton</i>
Zelig, David	<i>Haverhill</i>
Zundell, Samuel Charles	<i>Fall River</i>

First Year

Barritt, Robert James	<i>Hamilton, Bermuda</i>
Barron, David	<i>Brockton</i>
Baxter, George Raymond	<i>St. John, N. B.</i>
Benaglia, Carl Peter	<i>Worcester</i>
Berkowitz, Arthur	<i>Roxbury</i>
Berman, David	<i>Roxbury</i>
Biddle, Stephen Mulford	<i>Thornton, N. H.</i>
Block, Harry	<i>Boston</i>
Bousquet, Franklin Philip	<i>Worcester</i>

Bowen, Earl Allwood	<i>Providence, R. I.</i>
Bradshaw, George Lane	<i>Lawrence</i>
Caldarone, Angelo	<i>Providence, R. I.</i>
Caldicott, George Francis	<i>Milford</i>
Chandlee, Gertrude Jackson	<i>Philadelphia, Penna.</i>
Chapnick, Maurice Max	<i>New Haven, Conn.</i>
Clark, Orma Lawrence	<i>South Acton</i>
Cody, John Michael	<i>Peabody</i>
Cohen, Julius William	<i>Dorchester</i>
Cohen, Simeon	<i>Ansonia, Conn.</i>
Coleman, Robert Martin	<i>Wellesley</i>
Collinson, Arthur William	<i>Greenwood</i>
Conlon, Leo Vincent	<i>Millville</i>
Cronin, Edward Joseph	<i>Haverhill</i>
Davis, Thomas Francis	<i>Brighton</i>
Dressler, Morris Lawrence	<i>Springfield</i>
Easterbrooks, Harold Arnold	<i>Providence, R. I.</i>
Easterling, Ruth Marguerite	<i>North Cambridge</i>
Favaloro, John	<i>Lynn</i>
Federkiewicz, John	<i>Boston</i>
Feingold, Ephraim	<i>Worcester</i>
Fielding, Bennett Irving	<i>Worcester</i>
Gaber, Nathan	<i>Boston</i>
Gagnon, Alphonse Paul	<i>Fall River</i>
Gibson, David Howard	<i>Cambridge</i>
Gilpatrick, James Matthews	<i>South Berwick, Me.</i>
Givan, James Alexander	<i>Somerville</i>
Glebow, Eleanore	<i>Jamaica Plain</i>
Glickman, Alfred Myron	<i>Springfield</i>
Goldsmith, Thomas Bartholomew	<i>Merrick</i>
Goldstein, Henry	<i>Roxbury</i>
Grandfield, Robert Francis	<i>Dorchester</i>
Griffin, Charles Henry	<i>Fall River</i>
Grumley, Martin Edward	<i>Boston</i>
Harris, Paul Leon	<i>Lowell</i>
Hartigan, John Joseph	<i>Andover</i>
Hauman, Ralph Nathan	<i>Revere</i>
Hazen, Bernice Merriam	<i>Manchester, N. H.</i>
Hemenway, Ruth Victoria	<i>Williamsburg</i>
Henry, Robert Thomas	<i>Pawtucket, R. I.</i>
Higgins, Francis John	<i>Providence, R. I.</i>
Hinchey, Richard James	<i>Haverhill</i>
Hogan, Charles Henry, Jr.	<i>Salem</i>

Hooper, Raymond Ernest	<i>Maynard</i>
Hymen, Max Harry	<i>New Haven, Conn.</i>
Josselson, Israel	<i>Portland, Me.</i>
Kamberg, Samuel	<i>Boston</i>
Kelly, Earl Francis	<i>Pawtucket, R. I.</i>
Kontoff, Henry Arthur	<i>Dorchester</i>
Kreplick, Morris Spellman	<i>Revere</i>
Lanigan, William Nicholas	<i>Marlboro</i>
Laserson, Joseph	<i>Roxbury</i>
Levine, Elijah Louis	<i>Lynn</i>
Listernick, Sidney Solomon	<i>Everett</i>
Locke, Sophie	<i>Winchester</i>
Lombardi, Pasquale Frederick	<i>Boston</i>
Mackler, David Abram	<i>New Bedford</i>
Marchand, Jean Charles	<i>Salem</i>
Matzek, Neil Clayton	<i>Revere</i>
McGrath, Laurence Wilfred	<i>Roxbury</i>
McLaughlin, Allan Everett	<i>Framingham</i>
McNamara, John Joseph	<i>Lowell</i>
A.B. (Holy Cross College)	
McQuade, Frank Joseph	<i>Manchester, N. H.</i>
Melvin, Edward Gerald	<i>Pawtucket, R. I.</i>
Mezer, Joseph Henry	<i>Boston</i>
Minah, Franklin James	<i>Franklin, N. H.</i>
Murphy, Arthur John	<i>Peabody</i>
Murphy, Thomas Burke	<i>Lynn</i>
Normandin, Marguerite Alice	<i>Laconia, N. H.</i>
Novack, Hyman Allan	<i>Dorchester</i>
O'Connell, Maurice Winthrop	<i>Roxbury</i>
O'Connell, William Foster	<i>Bridgeport, Conn.</i>
Orismonto, Carlo Altobelli	<i>Jamaica Plain</i>
Orr, Charles Waldron	<i>Revere</i>
Parker, George Leonard	<i>Clinton</i>
Paul, Frederick Henry, Jr.	<i>Waltham</i>
Petrillo, Carmen Ralph	<i>Boston</i>
Pollack, Bernard	<i>Boston</i>
Portnoy, Maurice	<i>New Bedford</i>
Prizer, Morris	<i>Lynn</i>
Reilly, William Edward	<i>Taunton</i>
Riendeau, Fernand Maurice	<i>Worcester</i>
Rood, George Wilson	<i>West Somerville</i>
Ross, Florence Mirick	<i>Dorchester</i>
Ryan, James Patrick	<i>Salem</i>

Sachs, Benjamin,	<i>Palestine, Jerusalem</i>
L.B. (Univ. de Poitiers, France)	
Scal, Jacob	<i>New York, N. Y.</i>
Scodel, Bension	<i>St. Paul, Minn.</i>
Sharp, Benjamin Samuel	<i>Providence, R. I.</i>
Shea, Daniel William	<i>Bellows Falls, Vt.</i>
Siegel, Louis	<i>Revere</i>
Silbert, Harry	<i>Chelsea</i>
Silvernail, Raymond Warren	<i>Salem</i>
Skvirsky, Solomon Louis	<i>Springfield</i>
Soforenko, Harry	<i>Providence, R. I.</i>
Spitz, Jacob	<i>Boston</i>
Spiva, Charles	<i>Roxbury</i>
Springer, Ernest	<i>Boston</i>
Stasio, Joseph	<i>East Boston</i>
Stochaj, John William	<i>Webster</i>
Sullivan, Harold Albert	<i>Maynard</i>
Sullivan, Jeremiah Vincent	<i>Fall River</i>
Tartakoff, Samuel	<i>West Stoughton</i>
Thompson, James Allan	<i>Cambridge</i>
Tirk, Henry Saul	<i>Boston</i>
Tober, Jacob Benjamin	<i>Springfield</i>
Tumarkin, Morris Saul	<i>Roxbury</i>
Walsh, John Francis	<i>Salem</i>
Watman, Anthony Joseph	<i>Lynn</i>
Wight, Freeman Clark	<i>Millis</i>
Williams, John Francis	<i>Dorchester</i>
Williams, Richard Joseph	<i>Lynn</i>
Yaffe, Joseph Philip	<i>Boston</i>
Young, Ernest Thomas	<i>Boston</i>
Yunitz, John, Jr.	<i>Everett</i>

Summary Medical School

Fourth Year	73
Third Year	95
Second Year	102
First Year	124
Total	394

Dental School

[P. O. Address, 416 Huntington Ave., Boston, Mass.]

Third Year

Adams, Philip Edwin	<i>Farmington, Me.</i>
Allan, Theodore DeWitt	<i>Gloucester</i>
Allen, John Robert	<i>North Attleboro</i>
Ames, Walter Frank	<i>North Attleboro</i>
Audet, Joseph Achille	<i>Boston</i>
Backman, Maurice Peter	<i>Lynn</i>
Baker, Horace Earle	<i>North Attleboro</i>
Bartlett, Charles Oscar	<i>East Holliston</i>
Begley, James Edward	<i>Woburn</i>
Belanger, Emile Jean	<i>Nashua, N. H.</i>
Bergan, Francis Patrick	<i>North Cohasset</i>
Berger, Albert Conrad	<i>Providence, R. I.</i>
van den Besselaar, Hubert	<i>Dorchester</i>
Bianchi, Anthony Ferdinand	<i>Somerville</i>
Billingham, Oscar Warren	<i>Jamaica Plain</i>
Bodin, Leroy George	<i>Northampton</i>
Brodbine, John Alfred	<i>Beachmont</i>
Brown, Frederic Ward	<i>Scituate</i>
Browning, Frank Duane	<i>Jewett City, Conn.</i>
Brush, David Carey	<i>Vineyard Haven</i>
Bucknam, Earle Shepard	<i>Lewiston, Me.</i>
Burke, Marcus Francis	<i>Clinton</i>
Burke, Mark Manuel	<i>Providence, R. I.</i>
Burke, William Edward	<i>Westfield</i>
Burnce, Rachel Minnie	<i>Boston</i>
Burns, Bernard John	<i>Worcester</i>
Burns, Leo Edward	<i>Natick</i>
Callahan, Henry Francis	<i>Peabody</i>
Campbell, Charles Edward	<i>Peabody</i>
Casper, Michael Vincent	<i>South Boston</i>
Cassidy, Donald William	<i>Houlton, Me.</i>
Chisholm, Walter King	<i>West Bridgewater</i>
Church, Dana Earle	<i>Springfield</i>
Clancy, William Henry	<i>Hudson</i>
Clark, Ralph Arra	<i>Arlington</i>
Clarke, George Francis	<i>Lowell</i>

Cohen, Jacob	<i>Haverhill</i>
Cohen, Samuel	<i>Manchester, N. H.</i>
Cohen, Samuel	<i>Chelsea</i>
Cohen, Simon Isador	<i>Chelsea</i>
Collins, Arthur Eugene	<i>Melrose Highlands</i>
Collins, William Henry	<i>Bondsville</i>
Consolmagno, Luke Joseph	<i>Medford</i>
Cooper, Benedict	<i>Brooklyn, N. Y.</i>
Cotter, Harry Norman	<i>New York, N. Y.</i>
Coughlan, Alphonsus John	<i>St. John, N. B.</i>
A.B. (St. Joseph's Univ.)	
Crawford, Fred Brown	<i>Newport, Vt.</i>
Croisietiere, Leo Albert	<i>Cambridge</i>
Crossland, Ernest Agur	<i>Bradford</i>
Crowl, Loyal J.	<i>Boston</i>
Crowley, John Walter	<i>Dorchester</i>
Cunningham, Richard Daniel	<i>Chicopee Falls</i>
Cupitt, Graham Hunter	<i>Taunton</i>
Cushing, Ralph William	<i>Portland, Me.</i>
Cushner, Jacob Aaron	<i>Dorchester</i>
Dacey, Arthur Joseph	<i>Marlboro</i>
Dalton, Peter Joseph	<i>Marlboro</i>
DeFelice, Michelangelo	<i>Boston</i>
Demers, Romeo Felix	<i>Manchester, N. H.</i>
DesMarais, Alfred George	<i>Somersworth, N. H.</i>
Desmond, Frederick James	<i>Beverly</i>
Desmond, John Walter	<i>Shirley</i>
Dickson, Robert Earl	<i>West Somerville</i>
Dimmick, Meriel Lapham	<i>Newburyport</i>
Doherty, Thomas Augustine	<i>Lynn</i>
Donahoe, Frederic Florence	<i>Lowell</i>
Dufort, Gerald Eugene	<i>Manchester, N. H.</i>
Dyon, Oscar Omer	<i>Springfield</i>
Eaton, Dean Colton	<i>Brunswick, Me.</i>
Edwards, Arthur Francis	<i>Salem</i>
Egan, John Joseph O'Neil	<i>Dorchester</i>
Ellis, John Henry	<i>Peabody</i>
Emmons, Harry Elmer, Jr.	<i>Brunswick, Me.</i>
Epstein, Louis	<i>New Bedford</i>
Fairbanks, Ivan Dean	<i>Yonkers, N. Y.</i>
Farrell, Charles Laurence	<i>West Newton</i>
Flanders, Charles Chase	<i>Malden</i>
Frechette, Emile August	<i>Worcester</i>

Freedman, Abraham	<i>Roxbury</i>
Friedman, Reuben	<i>Boston</i>
Frizzell, Walter Miller	<i>Greenfield</i>
Garvey, Arthur Russell	<i>Waltham</i>
Gaudet, Leo Andrew	<i>St. Joseph, N. B.</i>
Gendreau, Raymond	<i>Dracut Centre</i>
Goldsmith, William Erwin	<i>Newburyport</i>
Goodman, Morris	<i>Chelsea</i>
Gould, Arthur Richard	<i>Braintree</i>
Green, Charles Harrison	<i>Boston</i>
Grinnell, Willis Howland	<i>Boston</i>
Grotsky, Meyer	<i>Boston</i>
Hackett, John Henry	<i>Biddeford, Me.</i>
Haffner, Ruth Clarissa	<i>Lawrence</i>
Hagerty, Daniel Joseph	<i>Nashua, N. H.</i>
Hagerty, John Francis, Jr.	<i>Nashua, N. H.</i>
Hall, James Murray Paul	<i>Cambridge</i>
Harmer, Milton Ivan	<i>Norton, N. B.</i>
Harris, Caspar	<i>Dorchester</i>
Harris, Max Jacob	<i>Dorchester</i>
Harty, William Francis, Jr.	<i>Gloucester</i>
Harvey, Charles Edward	<i>Roxbury</i>
Heath, William Brewster	<i>Malden</i>
Hickie, William Andrew	<i>St. George, N. B.</i>
Isherwood, Sidney	<i>Boston</i>
Jacobs, Max Henry	<i>Boston</i>
Jones, Solomon Jacob	<i>Hyde Park</i>
Kefferstein, John	<i>Lawrence</i>
Kelleher, John Alexander, Jr.	<i>Marlboro</i>
Kelleher, Joseph Jeremiah	<i>Brockton</i>
Klein, Max Mitchell	<i>Roxbury</i>
Kohlhepp, John Valentine, D.D.S.	<i>Boston</i>
Lambert, James Joseph	<i>Webster</i>
LaRochelle, Arthur Isidore	<i>Southbridge</i>
LeBlanc, Arthur Hilarion	<i>Cape Bald, N. B.</i>
Lemont, Mason Metcalf	<i>Bath, Me.</i>
Levin, Israel	<i>Providence, R. I.</i>
Levin, Nathan Simmon	<i>Salem</i>
Levitan, Julius Joseph	<i>South Boston</i>
Lima, Frank William	<i>Lynn</i>
Lynch, Ambrose Henry	<i>Providence, R. I.</i>
Mackay, Edgar Forrester	<i>Waverley</i>
Margolis, David Henry	<i>Boston</i>

Maycock, James Herbert	<i>Amesbury</i>
McAuliffe, Philip Leo	<i>Wakefield</i>
McCarthy, Timothy John, Jr.	<i>South Boston</i>
McClure, Nathan Francis	<i>Atlantic</i>
McCormick, John James	<i>Springfield</i>
McGrath, James Harold	<i>Taunton</i>
McKenna, Ernest James	<i>Dorchester</i>
McKenna, Paul Joseph	<i>Dorchester</i>
McLellan, William Leonard	<i>Indian River, P. E. I.</i>
McNary, Ralph Henry	<i>Chelsea</i>
Michelson, Myer Warren	<i>West Roxbury</i>
Moberg, Frank Walter	<i>Brockton</i>
Morrill, Everett Elverdo	<i>Dorchester</i>
Moskow, Rose	<i>Dorchester</i>
Murray, Charles Henry	<i>Worcester</i>
Neumann, Erna Elisabeth	<i>Bremen, Germany</i>
Norton, Thomas Keene	<i>Lexington</i>
Nulty, Thomas Edmund	<i>Ticonderoga, N. Y.</i>
O'Connor, Harry Newman	<i>Revere</i>
O'Connor, John Francis	<i>Fitchburg</i>
O'Hear, Francis Xavier	<i>Thompsonville, Conn.</i>
O'Neil, Frederick William	<i>Saranac Lake, N. Y.</i>
Parsons, Fred Anthony	<i>Patten, Me.</i>
Pennine, Saverio Nicandro	<i>Providence, R. I.</i>
Perelman, Joseph Max	<i>Burlington, Vt.</i>
Phipps, Walter Emerson	<i>Holliston</i>
Podolinsky, Solomon Benjamin	<i>Dorchester</i>
Pofcher, Joseph	<i>Roxbury</i>
Powers, James Harold	<i>Peabody</i>
Powers, Richard Patrick	<i>Clinton</i>
Reardon, Timothy Henry, Jr.	<i>Lowell</i>
Reed, Leonard Harold	<i>Keswick Ridge, N. B.</i>
Richards, Clifford Stephen	<i>Haverhill</i>
Robertson, George Waldo	<i>North Abington</i>
Rosenblum, David Samuel	<i>Manchester, N. H.</i>
Ross, Samuel	<i>Boston</i>
Ross, Stanley Huggins	<i>Malden</i>
Rothblatt, George	<i>Willimantic, Conn.</i>
Rourke, Arthur Thomas	<i>Fitchburg</i>
Rubin, Joseph Samuel	<i>Boston</i>
Ryan, John Thomas	<i>Avon</i>
Sagansky, Harry	<i>Boston</i>
Sager, Louis Emmons	<i>Roslindale</i>

Saklad, Samuel	<i>Roxbury</i>
Savage, Gale Russell	<i>Fitchburg</i>
Schore, Herman	<i>Dorchester</i>
Schwartz, Bernard Samuel	<i>Boston</i>
Schwartz, Hyman	<i>Boston</i>
Scott, Bessie Bonker	<i>Worcester</i>
Shapiro, Harry	<i>Brooklyn, N. Y.</i>
Sheehan, Albert Thomas	<i>Wallingford, Conn.</i>
Sheldon, Robert Francis	<i>Ticonderoga, N. Y.</i>
Shubow, Abraham Sidney	<i>Dorchester</i>
Siskind, Berthold	<i>Lawrence</i>
Small, Wilbert Merrill	<i>Quincy</i>
Snell, John Philip	<i>Lynn</i>
Stevens, Roland Silas	<i>Monhegan, Me.</i>
Stewart, Roy Bryson	<i>Faneuil</i>
Stokes, Samuel Hartley	<i>Rochester, N. H.</i>
Straw, Merle David	<i>Guilford, Me.</i>
Stritch, Bertram Edward	<i>Ware</i>
Strong, William Henry	<i>East Boston</i>
Sullivan, Frederick Devlin	<i>Shelburne Falls</i>
Sullivan, Jeremiah Joseph	<i>Medway</i>
Sullivan, Louis Edmund	<i>Maynard</i>
Surabian, Mihran Charles	<i>Boston</i>
Tetlow, Allen Redfern	<i>Taunton</i>
Teutonico, Arthur Iginio	<i>Lawrence</i>
Thomas, Kenneth Joshua	<i>Calais, Me.</i>
Threshie, Charles	<i>Brookline</i>
Todd, Joseph Donald	<i>Dorchester</i>
Trundy, Levi	<i>Searsport, Me.</i>
Turner, Ashleigh Wentworth	<i>Meductic, N. B.</i>
Voge, William Louis	<i>Jamaica Plain</i>
Walker, Edward Shipley	<i>Providence, R. I.</i>
Walsh, Edward Thomas	<i>Bridgewater</i>
Walsh, Lewis Edward	<i>Everett</i>
Weener, Joseph	<i>Boston</i>
Wein, Theodore	<i>Roxbury</i>
Weisman, Frank	<i>Arlington</i>
Welch, Francis Joseph	<i>Calais, Me.</i>
Weymouth, Charles Haines, Jr.	<i>Fisherville</i>
Whittemore, Forrest James	<i>Brimfield</i>
Wholey, Timothy Joseph	<i>Lawrence</i>
Whoriskey, George Richard	<i>Cambridge</i>
Wilder, Walter Morse	<i>Howard, R. I.</i>

Williamson, Kenneth Gillmor	<i>Second Falls, N. B.</i>
Wills, Albert Cornelius	<i>Buxton, British Guiana</i>
Woods, Edward Patrick	<i>Newburyport</i>
Woodworth, Randall Nelson, Jr.	<i>Concord Junction</i>
Yando, Arthur Heli	<i>Fitchburg</i>
Zimmerman, Harold	<i>Springfield</i>

Second Year

Abbott, George Isaac	<i>Bethel, Vt.</i>
Abramovitz, Max	<i>Boston</i>
Adams, Warren Lincoln	<i>Somerville</i>
Anderson, Charles Ranquas	<i>East Longmeadow</i>
Andrews, Earle Ralph	<i>Gloucester</i>
Archambeault, Arthur	<i>New Bedford</i>
Barry, Jeremiah Francis	<i>Everett</i>
Barry, John Francis	<i>South Manchester, Conn.</i>
Bates, Carl Jewell	<i>Winthrop, Me.</i>
Baxter, Charles Francis	<i>Waterville, Me.</i>
Bernot, Ruth Florida	<i>Worcester</i>
Bethell, Russell Howard	<i>Boston</i>
Blasi, Arthur	<i>Newark, N. J.</i>
Boire, Paul	<i>Manchester, N. H.</i>
Bommer, Arno Max	<i>Chelsea</i>
Bonney, Dorothy Geierstein	<i>Arlington</i>
Boyaner, Frank	<i>St. John, N. B.</i>
Brooks, Frederick Bynum	<i>Cambridge</i>
Brown, Emery Hartley	<i>Presque Isle, Me.</i>
Bulfinch, Fred Lawrence	<i>Manchester, N. H.</i>
Bunnell, Shirley Abel	<i>Wales, Me.</i>
Butler, Percival Forbes	<i>Bath, Me.</i>
Byrnes, John Joseph	<i>Holyoke</i>
Cahill, Francis Michael	<i>Worcester</i>

A.B. (Holy Cross College)

Carmody, Thomas George	<i>Providence, R. I.</i>
Caron, Milio Valmor	<i>Lewiston, Me</i>
Cassidy, Francis Leo	<i>Millbury</i>
Clancy, James Fred	<i>Boston</i>
Cleary, John Albert	<i>Holyoke</i>
Cleary, William Francis	<i>Roxbury</i>
Cohen, Abraham Benjamin	<i>Springfield</i>
Coleman, Alfred Mitchell	<i>East Boston</i>
Collette, Albana Hugo	<i>Spencer</i>
Congdon, James Leonard	<i>Swampscott</i>

Connell, Ralph	<i>Springfield</i>
Courant, Reginald	<i>Gloucester</i>
Crowley, Joseph Henry	<i>Brighton</i>
Cummings, Laurence Henry	<i>Clinton</i>
Curran, James Leo	<i>Worcester</i>
Daitch, Abraham	<i>Dorchester</i>
Davis, Russell Henry	<i>North Attleboro</i>
Deane, Edward Thornton	<i>Middleboro</i>
Desjardins, Louis Philip	<i>Brunswick, Me.</i>
Diamond, Robert Ira	<i>East Boston</i>
Dion, Alfred Joseph	<i>Worcester</i>
Donlon, Carl James	<i>Cambridge</i>
Dowd, Thomas Francis	<i>Fall River</i>
Dunn, Frank Henry	<i>Roxbury</i>
Egger, Eldon Fearing	<i>Brockton</i>
Eldridge, Arthur Burnside	<i>Holbrook</i>
Emery, Norman Bartlett	<i>York Beach, Me.</i>
Enholm, Philip Andrew	<i>Newton Lower Falls</i>
Erlenbach, Franklin Michael, Jr.	<i>Brookline</i>
Everett, Raymond Charles	<i>Waltham</i>
Fallon, Paul Owen	<i>Roxbury</i>
Fenton, Joseph William	<i>Lawrence</i>
Fenton, Maurice John	<i>Springfield</i>
Fine, Harry Israel	<i>Canobie Lake, N. H.</i>
Finnegan, John Patrick	<i>Brockton</i>
Fishman, Leopold	<i>Cambridge</i>
Fitzgerald, Edmund John	<i>Taunton</i>
Foss, Willard Harold	<i>Leominster</i>
Franchere, Harry Birch	<i>North Adams</i>
Freeland, Jacob Dewey	<i>Worcester</i>
Garland, Gordon Egbert	<i>Nashua, N. H.</i>
Genn, Benjamin Harris	<i>Pittsfield</i>
Gideon, Jessie Katharine	<i>Boston</i>
Ginn, James Richard	<i>West Harwich</i>
Ginsberg, Harold	<i>Springfield</i>
Ginsberg, Joseph	<i>Springfield</i>
Gleitsman, Adolphus Richard	<i>Somerville</i>
Golden, Edward Warren	<i>East Boston</i>
Goldstein, Moses	<i>Boston</i>
Gough, Martin George	<i>Everett</i>
Grady, Frederick Blessington	<i>Holyoke</i>
Grady, John Joseph	<i>Salem</i>
Grady, Walter Joseph	<i>Worcester</i>

Graichen, Walter Gustave	<i>Lawrence</i>
Hannigan, Timothy William, Jr.	<i>Milford</i>
Hannon, John Francis	<i>Brockton</i>
Hare, Benjamin	<i>Springfield</i>
Healey, William Leo	<i>Clinton</i>
Hobbs, Edward Stanley, Jr.	<i>Stony Brook</i>
Hodges, Kenneth Bertrand	<i>North Attleboro</i>
Horrigan, Howard Patrick	<i>Holyoke</i>
Hughes, Wilbur Robert	<i>Somerville</i>
Hunter, James Stanley	<i>Natick</i>
Jacobs, Isidore	<i>Brooklyn, N. Y.</i>
Jennings, Clifford Milton	<i>Beach Park, Conn.</i>
Just, José	<i>Rio Grande, P. R.</i>
Kalin, Harry Hyman	<i>Leominster</i>
Kandib, Sophia	<i>Dorchester</i>
Karamallis, Seraphim	<i>Boston</i>

D.D. (Constantinople Theological College)

Kassels, Harry Isaac	<i>Malden</i>
Keane, Edward Francis	<i>Manchester, N. H.</i>
Kelley, Francis Xavier	<i>Milford</i>
Kelley, Robert Emmet	<i>Pawtucket, R. I.</i>
Kempton, Carl Fletcher	<i>Rangeley, Me.</i>
Kestenbaum, Edward	<i>New Bedford</i>
King, Frank Robinson	<i>Fort William, Ont.</i>
Kovav, George	<i>South Boston</i>
Laird, Henry Sperry	<i>Montpelier, Vt.</i>
Lanagan, Arthur Gregory	<i>Waltham</i>
Lantz, Carl Aldolph Alvin	<i>Websterville, Vt.</i>
Lasker, Robert Reuben	<i>Hyde Park</i>
LeBourdais, Joseph Thomas	<i>Brunswick, Me.</i>
LeClair, Harry Leigh	<i>Bristol, R. I.</i>
Levenson, Louis Charles	<i>Dorchester</i>
Levine, Leo Israel	<i>Dorchester</i>
Levy, Clayman Carl	<i>Lynn</i>
Lipkind, Joshua Samuel	<i>Somerville</i>
Lloyd, Frederick Alton	<i>Somerville</i>
Looney, Daniel Edward	<i>Allston</i>
Lounsbury, Paul, Jr.	<i>Roslindale</i>
Lowell, Grace Evelyn	<i>Wilmington</i>
Lynch, Joseph Francis	<i>Holyoke</i>
Macauley, Forrest Edward	<i>Gloucester</i>
Machanic, Morris Robert	<i>Burlington, Vt.</i>
Mackintosh, Robert Murdoch	<i>Ludlow</i>

Marrs, Francis Jerome	<i>Peabody</i>
Martin, James Harold	<i>Worcester</i>
McCarthy, John Henry	<i>Dorchester</i>
McCarty, Frank Joseph	<i>Chelsea</i>
McCaul, Fred Leo	<i>Brockton</i>
McCormick, Everett Harold	<i>Holyoke</i>
McCoy, John Martin	<i>Charlestown</i>
McDonald, Hugh Joseph	<i>Southboro</i>
McGowan, Paul Clare	<i>Somerville</i>
McLean, Frank Malcolm	<i>Roxbury</i>
Miller, Eli	<i>Dorchester</i>
Moran, Augustine James	<i>Springfield</i>
Mottley, Frank Wilbur	<i>Atlantic</i>
Murphy, Charles Gerard	<i>Wollaston</i>
Murray, John Francis	<i>Dedham</i>
Muzzey, Ivor Paine	<i>Holbrook</i>
Nackley, Najeeb	<i>Allston</i>
Nelson, George Edwin	<i>Worcester</i>
Nevens, George Sanford	<i>Watertown</i>
Nicholson, Benjamin	<i>Lawrence</i>
Nikula, Frank Oscar	<i>Fitchburg</i>
Norris, George Francis	<i>Southampton</i>
Norton, Thomas Augustus	<i>Rutland, Vt.</i>
Nutter, Doris	<i>Woodsville, N. H.</i>
Oliver, Alfred Joseph	<i>Milford</i>
O'Meara, Catherine Virginia	<i>Arlington Heights</i>
O'Neill, Harry Martin	<i>Nashua, N. H.</i>
O'Regan William Leo	<i>East Boston</i>
Patriquin, Forrest Douglas	<i>Newburyport</i>
Perri, Nicholas Peter	<i>Brooklyn, N. Y.</i>
Pottle, Arthur Freeman	<i>Meredith, N. H.</i>
Pratt, Herbert Louis	<i>Nashua, N. H.</i>
Reid, Thomas Joseph	<i>East Weymouth</i>
Reid, William Francis	<i>Cambridge</i>
Reines, Harold Bear	<i>Chelsea</i>
Ring, Frank Edward	<i>Lynn</i>
Roberts, Russell	<i>Fair Haven, Vt.</i>
Ronan, Helen Elizabeth	<i>Salem</i>
Rouslin, John Jacob	<i>Providence, R. I.</i>
Sanders, Allbert Carter, Jr.	<i>Jersey City, N. J.</i>
Saunders, Earl Augustus	<i>Deer Isle, Me.</i>
Schwartz, Samuel Irving	<i>Manchester, England</i>
Scott, Frank Joseph	<i>Bradford</i>

Selinsky, Joseph Augustus	<i>Hudson</i>
Sessler, Albert Rank	<i>Boston</i>
Shea, John Ignatius, A.B. (Boston College) .	<i>Jamaica Plain</i>
Shea, Matthew Francis	<i>Cambridge</i>
Skofield, Raymond Harold	<i>Houlton, Me.</i>
Smith, Howard Carlton	<i>Providence, R. I.</i>
Smith, Maynard Maxwell	<i>Milltown, Me.</i>
Spear, Harold Elmer	<i>St. Albans, Vt.</i>
Spencer, Bradford Jenckes	<i>South Manchester, Conn.</i>
Stephenson, Milton Cabot	<i>Belfast, Me.</i>
Stewart, Charles Edward	<i>Fort William, Ont.</i>
Sundstrom, George Leroy	<i>Worcester</i>
Tassé, Joseph René	<i>Worcester</i>
Taylor, Bernard Henry	<i>Springfield, Vt.</i>
Thresher, Irene Celeste	<i>Southbridge</i>
Thurman, Anna	<i>Dorchester</i>
Titus, Paul King	<i>West Medford</i>
Tomasi, Thomas	<i>Barre, Vt.</i>
Turner, Charles Hamilton	<i>Hallowell, Me.</i>
Vasiliou, Stephen Theodore	<i>Boston</i>
Walsh, James Edward, Jr.	<i>Hudson</i>
Wark, Roy Henry	<i>Hardwick, Vt.</i>
Warren, Ralph Duncan	<i>Bath, Me.</i>
Weeks, Cornelius	<i>Hinsdale, N. H.</i>
Weeks, Hadley Fairfield	<i>Calais, Me.</i>
Weiner, Max	<i>Brooklyn, N. Y.</i>
Westhaver, Ellerd Hunt	<i>Atlantic</i>
Wilder, Herbert Whiton	<i>Hingham</i>
Wood, Leland Charles	<i>St. Albans, Vt.</i>
Wright, Herbert Francis	<i>North Attleboro</i>
Wright, Ida Ellen	<i>Boston</i>
Zwoden, Abram	<i>Providence, R. I.</i>

Second Year — New Course

Altman, Sydney Benjamin	<i>Clinton</i>
Callahan, John Francis	<i>Provincetown</i>
Gregg, James Aloysius	<i>Natick</i>
Holland, Charles Leo	<i>South Boston</i>
MacBride, Charles Clarke	<i>Brockton</i>
Scanlon, Thomas Michael	<i>Fitchburg</i>

First Year

Aldrich, Frederick Raymond	<i>Concord, N. H.</i>
Alexanian, Sooren Simon	<i>Worcester</i>
Alkon, Marie Celia	<i>Portsmouth, N. H.</i>
Ashworth, Thomas Cunliffe	<i>Waldoboro, Me.</i>
Barron, Harry Charles	<i>Wakefield</i>
Bradley, Harry John	<i>Milford</i>
Brady, Edward Dunovan	<i>Uxbridge</i>
Casey, Joseph Henry	<i>Dorchester</i>
Chadwick, Charles Frederic	<i>Lawrence</i>
Cohen, Samuel	<i>East Boston</i>
Collins, Frank Edward	<i>Jamaica Plain</i>
Copeland, Harold Ellis	<i>Rochester, N. H.</i>
Corcoran, William Henry	<i>Wakefield</i>
Dadkin, Benjamin	<i>Boston</i>
Daley, Martin Joseph	<i>Dorchester</i>
Dalrymple, John Richardson	<i>Millbury</i>
Decter, Samuel	<i>Framingham</i>
Demers, Albert Joseph	<i>Providence, R. I.</i>
Devine, Irving Domic	<i>Providence, R. I.</i>
Dowd, Edward Francis, Jr.	<i>Dorchester</i>
Dunphy, Albert Francis	<i>Providence, R. I.</i>
Dyer, William Oscar	<i>Norwich, Conn.</i>
Fallon, William Thomas	<i>Concord</i>
Feola, Joseph	<i>Newton</i>
Fishman, Hyman	<i>Somerville</i>
Gardner, Milo Fay	<i>Lu Verne, Ia.</i>
Goldberg, Hyman Harry	<i>Boston</i>
Grossman, Israel William	<i>East Boston</i>
Gumausky, Andrew Joseph, Jr.	<i>South Boston</i>
Hedolin, Cedric Bryant	<i>Hyde Park</i>
Hewett, Joseph Charles	<i>Newburyport</i>
Higgins, Laurence Granville	<i>Ellsworth, Me.</i>
Jones, Allan Leman	<i>Mansfield</i>
Jones, George Everett	<i>Somerville</i>
Kartz, Jeannette	<i>Cambridge</i>
Kazis, Harry	<i>Cambridge</i>
Kierstead, Heber Bertrand	<i>Caribou, Me.</i>
Kiley, John Patrick	<i>Holyoke</i>
Koobatian, Mihran John	<i>Worcester</i>
Korb, Charles	<i>Roxbury</i>
LaBelle, George Armand	<i>West Springfield</i>
Lake, Fred William	<i>Mechanicville, N. Y.</i>

Laliberte, Charles Conrad	<i>Holyoke</i>
Larkin, John Joseph, Jr.	<i>Waltham</i>
Lasselle, Harry Stearns	<i>Norway, Me.</i>
LeClaire, Romeo Hermidas	<i>North Grafton</i>
Levine, Abraham Morris	<i>Hyde Park</i>
Lucey, Frederick Joseph	<i>Taunton</i>
Mahoney, Frederick Anthony	<i>South Boston</i>
Malaney, Bernard Charles	<i>Ticonderoga, N. Y.</i>
Marshall, Joseph Sydney	<i>Rockport, Me.</i>
Martin, James Ernest, Jr.	<i>Roslindale</i>
Martineau, Horace William	<i>Cambridge</i>
McCarthy, Francis Wesley	<i>Roxbury</i>
McNall, Charles Ivon	<i>Malden</i>
Mellen, Benjamin Augustine	<i>South Boston</i>
Mongeau, Harry Joseph	<i>Montello</i>
Mooradkian, Mesrop Nicholas	<i>Lawrence</i>
Moran, William Henry	<i>Cambridge</i>
Morris, Andrew Vincent Washington	<i>Belmar, N. J.</i>
Moyse, Joseph Chauncey	<i>Greenville, Miss.</i>
Mulhare, Paul Leo	<i>Lawrence</i>
Newman, Harold Winship	<i>Melrose</i>
Oberg, Carl Alvard	<i>Worcester</i>
O'Brien, Edward Joseph	<i>Uxbridge</i>
O'Connor, Charles Francis	<i>Dorchester</i>
O'Hear, John Francis, Jr.	<i>Thompsonville, Conn.</i>
Parente, Angelo Michael	<i>Providence, R. I.</i>
Permuth, Victor	<i>Dorchester</i>
Philbin, Walter Raymond	<i>Clinton</i>
Raddin, Frederick Reginald	<i>Chelsea</i>
Reynolds, Clarence Leslie	<i>Amsterdam, N. Y.</i>
Rice, Harold Keith	<i>Calais, Me.</i>
Robertson, William Hoare	<i>Beverly</i>
Rock, Alton Austin	<i>Websterville, Vt.</i>
Ruggles, Roland Frederick	<i>Dorchester</i>
Schandler, Loyd Otto	<i>Gorham, N. H.</i>
Shea, John Joseph	<i>Providence, R. I.</i>
Sheehan, John Patrick	<i>Lawrence</i>
Sherrard, Vernon Fred	<i>Presque Isle, Me.</i>
Shifman, Jacob	<i>Boston</i>
Smith, James Edward	<i>Everett</i>
Steele, Richard Aberdeen	<i>P. of S., Trinidad, B.W.I.</i>
Sterling, Louis	<i>Boston</i>
Stone, Aaron Hirsh	<i>Dorchester</i>

Stucklen, Richard	<i>New York, N. Y.</i>
Swensen, Oscar Edwin	<i>Medford</i>
Taggart, Charles Ives	<i>Burlington, Vt.</i>
Thibert, Pauline Laure	<i>Worcester</i>
Vinal, Raymond Caswell	<i>West Somerville</i>
Weene, Joseph Louis	<i>Somerville</i>
Welch, Edmund Thomas	<i>Milford</i>
Wing, Walter Mavin	<i>Medford</i>
Wormwood, Bradley Whittier	<i>Waltham</i>
Wright, Edgar Allan	<i>Salem</i>

Summary Dental Students

Third year	213
Second year	193
Second year, New Course	6
First year	95
Total	<hr/> 507

SUMMARY

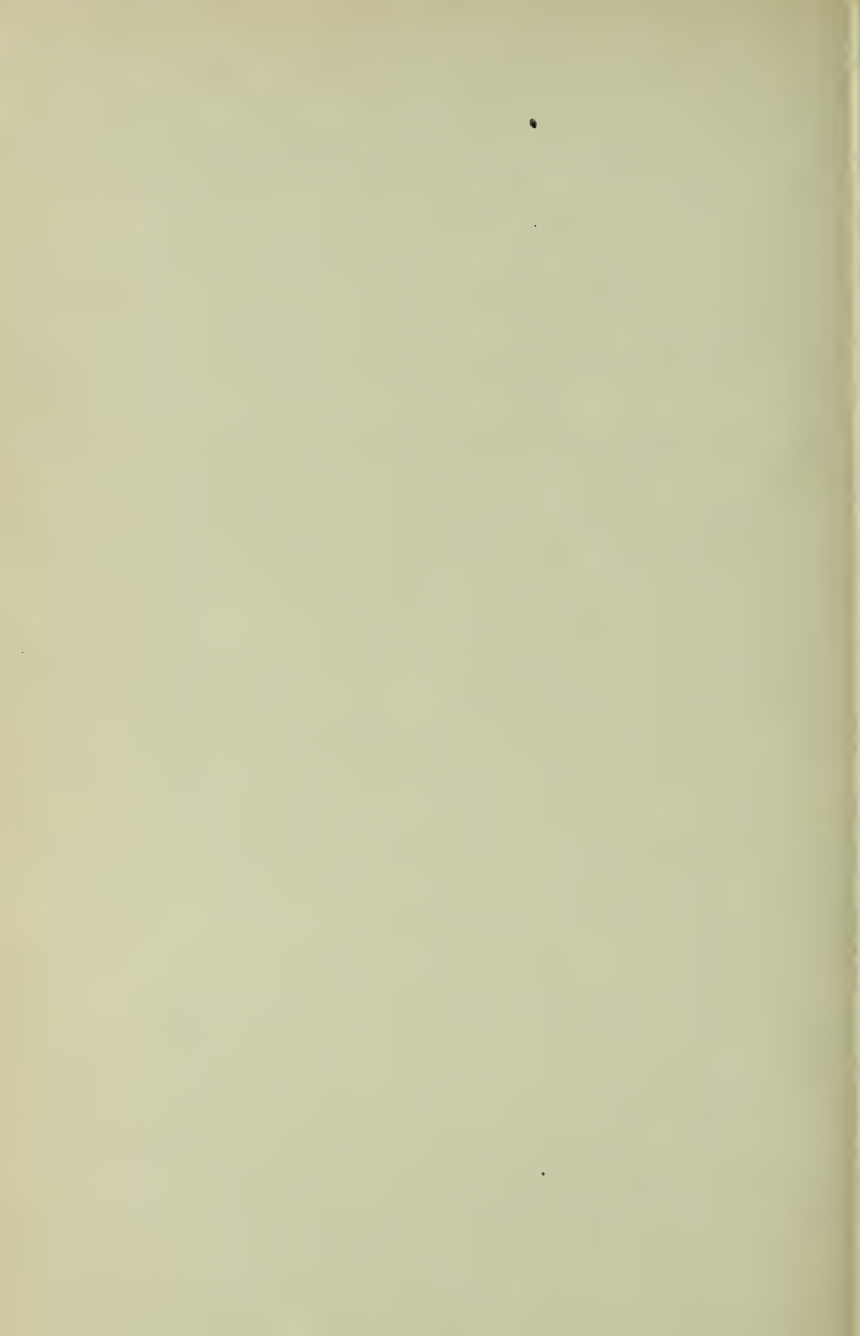
Trustees	28
--------------------	----

CORPS OF INSTRUCTION

Emeriti	12
President and Professors	50
Associate Professors	8
Assistant Professors	36
Lecturers	5
Instructors	95
Assistants	47
Teaching Fellows	2
Total engaged in work of instruction	— 255
Other Officers, not previously counted	55
	310

STUDENTS

SCHOOL OF LIBERAL ARTS:	
Seniors	25
Juniors	30
Sophomores	33
Freshmen	101
Unclassified	26—215
JACKSON COLLEGE FOR WOMEN:	
Seniors	16
Juniors	23
Sophomores	32
Freshmen	60
Specials	7
Unclassified	2—140
ENGINEERING SCHOOL:	
Seniors	25
Juniors	35
Sophomores	60
Freshmen	72
Unclassified	8—200
BROMFIELD-PEARSON SCHOOL	20
CRANE THEOLOGICAL SCHOOL	14
GRADUATE SCHOOL	8
TWO-YEAR PRE-MEDICAL COURSE	151
MEDICAL SCHOOL:	
Fourth Year	73
Third Year	95
Second Year	102
First Year	124—394
DENTAL SCHOOL:	
Third Year	213
Second Year	193
Second Year, New Course	6
First Year	95—507
Total registration of students	1649
Names appearing twice	4
Total number of students	1645



APPENDIX

A Statement of the Requirements in the Subjects that may be counted for Admission to Tufts College

Elementary English.

Three units.

Requirements for 1917-1919

The study of English in school has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence and appreciation.

Grammar and Composition.

One and one-half units.

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

Literature.

One and one-half units.

The second object is sought by means of two lists of books headed respectively *Reading* and *Study*, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some

of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

READING (A)

The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group I:

Group I. *Classics in Translation*.—The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; the Aeneid. The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

For any selection from this group a selection from any other group may be substituted.

Group II. *Shakespeare*.—Midsummer Night's Dream; Merchant of Venice; As you Like It; Twelfth Night; The Tempest; Romeo and Juliet; King John; Richard II; Richard III; Henry V; Coriolanus; Julius Cæsar*; Macbeth*; Hamlet*.

Group III. *Prose Fiction*. Malory's Morte d'Arthur (about 100 pages); Bunyan's Pilgrim's Progress, Part I; Swift's Gulliver's Travels (voyages to Lilliput and to Brobdingnag); DeFoe's

* If not chosen for study under (B).

Robinson Crusoe, Part I; Goldsmith's Vicar of Wakefield; Frances Burney's Evelina; Scott's Novels (any one); Jane Austen's Novels (any one); Maria Edgeworth's Castle Rackrent, or The Absentee; Dickens's Novels (any one); Thackeray's Novels (any one); George Eliot's Novels (any one); Mrs. Gaskell's Cranford; Kingsley's Westward Ho! or Hereward, the Wake; Reade's The Cloister and the Hearth; Blackmore's Lorna Doone; Hughes's Tom Brown's Schooldays; Stevenson's Treasure Island, or Kidnapped, or Master of Ballantrae; Cooper's Novels (any one); Poe's Selected Tales; Hawthorne's The House of the Seven Gables, or Twice-Told Tales, or Mosses from an Old Manse; a collection of Short Stories by various standard writers.

Group IV. *Essays, Biography, etc.*—Addison and Steele's The Sir Roger de Coverley Papers, or Selections from the Tatler and Spectator (about 200 pages); Boswell's Selections from the Life of Johnson (about 200 pages); Franklin's Autobiography; Irving's Sketch Book (about 200 pages), or Life of Goldsmith; Southey's Life of Nelson; Lamb's Essays of Elia (about 100 pages); Lockhart's Life of Scott (about 200 pages); Thackeray's Lectures on Swift, Addison, and Steele in the English Humourists; Macaulay's Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederic the Great, Madame d'Arblay (any one); Trevelyan's Life of Macaulay (about 200 pages); Ruskin's Sesame and Lilies, or Selections (about 150 pages); Dana's Two Years before the Mast; Selections from Lincoln, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter to Horace Greeley, together with a brief memoir or estimate; Parkman's The Oregon Trail; Thoreau's Walden; Lowell's Selected Essays (about 150 pages); Holmes's The Autocrat of the Breakfast Table; Stevenson's An Inland Voyage, and Travels with a Donkey; Huxley's Autobiography, and selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; a collection of essays by Bacon, Lamb,

DeQuincey, Hazlitt, Emerson, and later writers; a collection of Letters by various standard writers.

Group V. *Poetry*. Palgrave's Golden Treasury (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's Golden Treasury (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley (If not chosen for study under B); Goldsmith's The Traveller, and the Deserted Village; Pope's The Rape of the Lock; a collection of English and Scottish Ballads, as, for example, some Robin Hood ballads, The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens, and a selection from later ballads; Coleridge's The Ancient Mariner, Christabel, and Kubla Khan; Byron's Childe Harold, Canto III or IV, and The Prisoner of Chillon; Scott's The Lady of the Lake, or Marmion; Macaulay's The Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivry; Tennyson's The Princess, or Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, "De Gustibus"—, Instans Tyrannus; Arnold's Sohrab and Rustum, and the Forsaken Merman; Selections from American Poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

STUDY (B)

This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. The books provided for study are arranged in four groups, from each of which one selection is to be made.

Group I. *Drama*.—Shakespeare's Julius Cæsar, Macbeth, Hamlet.

Group II. *Poetry*.—Milton's L'Allegro, Il Penseroso, and either Comus or Lycidas; Tennyson's The Coming of Arthur, The Holy Grail, and The Passing of Arthur; the selections from Wordsworth, Keats, and Shelley in Book IV of Palgrave's Golden Treasury (First Series).

Group III. *Oratory*.—Burke's Speech on Conciliation with America; Macaulay's Two Speeches on Copyright, and Lincoln's Speech at Cooper Union; Washington's Farewell Address, and Webster's First Bunker Hill Oration.

Group IV. *Essays*.—Carlyle's Essay on Burns, with a selection from Burns's Poems; Macaulay's life of Johnson; Emerson's Essay on Manners.

Examination.

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination will be divided into two parts:

1. Grammar and Composition.

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English, which one should know in distinction from current errors. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps eight or ten, from which the candidate may make his own selections. He will not be expected to write more than four hundred words per hour.

2. Literature.

The examination in literature will include:

(a) General questions designed to test such a knowledge and appreciation of literature as may be gained by fulfilling the requirements defined under READING (A), above. The candidate will be required to submit a list of the books read in preparation for the examination, certified by the principal of the school in which he was prepared; but this list will not be made the basis of detailed questions.

(b) A test on the books prescribed for study, which will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works, and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

Elementary German.

Two units.

It is expected that the candidate will have studied the subject in a systematic course for two school years, each covering the equivalent of 120 sixty-minute periods, during which special attention will have been given to pronunciation and to writing from dictation, as well as to the use of clear and idiomatic English in translation.

The examination will consist of two parts:

(a) The translation into German of easy English sentences, to test the candidate's knowledge of the following subjects: the declension of nouns, adjectives, and pronouns; the conjugation of weak and the more frequently recurring strong verbs; the prepositions and cases which they govern; the simpler uses of modal auxiliaries; the elementary rules of syntax and word order. Proficiency may also be tested by questions on these topics.

(b) The translation at sight of easy German prose. It is believed that the requisite facility may be acquired by the reading

of from two to three hundred pages of easy German, with preference given to narrative style.

[The following list is made up from works suitable for reading in preparation for this examination; Anderson's *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Schwiegersohn*; Heyse's *Hochzeit auf Capri*; Storm's *Immensee*; Leander's *Träumereien*; Roth's *Ein nordischer Held*; Benedix, *Der Prozess*; Wilhelmi's *Einer muss heiraten*; Fulda's *Das verlorene Paradies*.]

In place of the examination in Elementary German a candidate may offer the examination of the College Entrance Examination Board in German A.

Intermediate German.

One unit

It is expected that the candidate will have pursued, in addition to the work done in preparation for Elementary German, an additional year's work of 120 hours. He should thus have acquired the ability to translate with considerable facility ordinary prose, similar to that of the preparatory course, and to answer briefly in German questions asked in that language by the instructor. Oral practice and dictation should be continued in this third year and a somewhat thorough acquaintance obtained with the rules of syntax, particularly with the subjunctive and infinitive moods; attention should also be given to the simpler facts of word formation — roots, prefixes and suffixes.

The examination will consist of two parts:

(a) The translation into German of a connected passage of simple English, paraphrased from some German text.

(b) The translation at sight of passages of ordinary German prose. It is believed that the requisite facility may be acquired by reading in addition to the amount stated for Elementary German, about four hundred pages of narrative and dramatic prose and verse.

[The following list is made up from works suitable for reading in preparation for this examination: Ebner-Eschenbach's *Freiherren von Gemperlein*; Gerstäcker's *Irrfahrten*; Hoffmann's *Historische Erzählungen*; Meyer's *Gustav Adolfs Page*; Riehl's *Burg Neideck und Fluch der Schönheit*;

Freitag's Aus dem Staat Friedrichs des Grossen, and die Journalisten; Schiller's Geisterseher, Neffe als Onkel, and Balladen; Scheffel's Trompeter von Säkkingen.]

In place of the examination in Intermediate German a candidate may offer the examination of the College Entrance Board in German B.

Advanced German.

One unit.

This examination is open to candidates who have had the equivalent of a four years' course, with an average of 120 full hour periods per year. At the end of this course the student should be able to read, after brief inspection, any (save technical) modern German literature, if free from unusual textual difficulties; to put into German a passage of simple English prose, or to write in that language a brief theme on some assigned topic within his range; and to answer in German questions relating to the lives and certain works of the authors studied.

The examination will consist of three parts:

(a) The writing in German of a paragraph, original or translated.

(b) The translation into English of extracts from at least three distinctively different authors. It is believed that the requisite facility may be acquired by reading in addition to the amount mentioned under Intermediate German, about five hundred pages of good literature in prose and verse.

(c) An oral test of proficiency in hearing and pronouncing German.

[The following list is made up from works suitable for reading in preparation for this examination: Fouque's Undine; Scheffel's Ekkehard; Ludwig's Zwischen Himmel und Erde; Freytag's Soll und Haben; Hauff's Lichtenstein; Goethe's Dichtung und Wahrheit (extracts), Die neue Melusine, Hermann und Dorothea; Lessing's Minna von Barnhelm, Schiller's Wilhelm Tell, Jungfrau von Orleans, Geschichte des dreissig-jährigen Krieges (third book); Grillparzer's Sappho; Kleist's Prinz von Homburg; Fulda's Talisman.]

In place of the examination in Advanced German, a candidate may offer the examination of the College Entrance Examination Board in German BC.

Elementary French.*Two units*

It is expected that the candidate will have studied the subject in a systematic course for two school years, each covering the equivalent of 120 sixty-minute periods, during which special attention will have been given to pronunciation and to writing from dictation, as well as to the use of clear, idiomatic English in translation.

The examination will consist of two parts:

(a) The translation into French of easy English sentences to test the candidate's knowledge of the following subjects: the conjugation of the regular and the most frequently recurring irregular verbs; the forms and positions of personal pronouns; the uses of the other pronouns and of possessive, demonstrative, and interrogative adjectives; the variation of nouns and adjectives for gender and number (except rare cases); the partitive construction. Proficiency may also be tested by questions on these topics.

(b) The translation at sight of a passage of easy French. It is believed that the requisite facility may be acquired by the reading of not less than three hundred and fifty pages of simple prose, with preference given to narrative.

[The following list is made up from works suitable for reading in preparation for this examination: The easier stories of Daudet, Verne, and Erckmann-Chatrian; Foa's *Le petit Robinson* and *Contes Biographiques*; Enault's *Le Chien du Capitaine*; Malot's *Sans Famille*; About's *Le Roi des Montagnes*; Labiche and Martin's *La Poudre aux Yeux* and *Le Voyage de M. Perrichon*; Sarcey's *Le Siège de Paris*.]

In place of the examination in Elementary French a candidate may offer the examination of the College Entrance Examination Board in French A.

Intermediate French.*One unit*

It is expected that the candidate will have passed, in addition to the work done in preparation for Elementary French, an additional year's work of 120 hours. He should thus have acquired the ability to translate with facility ordinary prose or verse similar to that of the preparatory course, and to answer briefly

in French questions asked in that language by the instructor. Oral practice and dictation should therefore be continued in this third year, together with a more detailed study of syntax, particularly of the use of moods and tenses, and of word formation and common idiomatic phrases.

The examination will consist of two parts :

(a) The translation into French of a connected passage of simple English.

(b) The translation at sight of passages of ordinary French prose or dramatic verse. It is believed that the requisite facility may be acquired by reading, in addition to the amount required for Elementary French, not less than four hundred pages of prose and verse, preference still being given to narrative form.

[The following list is made up from works suitable for reading in preparation for this examination: About's stories; Daudet's *La Belle-Nivernaise*; La Brète's *Mon Oncle et mon Curé*; Loti's *Pêcheur d'Islande*; George Sand's *Les Maîtres Mosaïstes*; Mérimée's *Colomba*; Thierry's *Récits des Temps mérovingiens*; Thiers's *L'Expédition de Bonaparte en Egypte*; Vigny's *La Canne de Jonc*; Corneille's *Horace*; Molière's *L'Avaro* and *Le Bourgeois Gentilhomme*; Racine's *Athalie*; Augier and Sandeau's *Le Gendre de M. Poirier*; Coppée's poems.]

In place of the examination in Intermediate French a candidate may offer the examination of the College Entrance Examination Board in French B.

Advanced French.

One unit.

This examination is open to candidates who have had the equivalent of a four year's course, with an average of 120 full hour periods per year. At the end of this course the student should be able to read at sight, with the help of a vocabulary of special or technical expressions, difficult French of not earlier than the seventeenth century; to write in French a short essay on some simple subject connected with the works read in preparation, and to take part in a simple conversation in French.

The examination will consist of three parts :

(a) The writing in French of an original passage of at least 150 words on some assigned subject.

(b) The translation into English of extracts from at least three distinctly different authors. It is believed that the requisite facility may be acquired by reading, in addition to the amount mentioned under Intermediate French, from six hundred to one thousand pages of standard French, inclusive of works merely commented upon in class.

(c) An oral test of proficiency in hearing and pronouncing French.

[The following list is made up from works suitable for reading in preparation for this examination: Taine's *Origines de la France contemporaine*; Sainte-Beuve's *Causeries du Lundi* (Holt Ed.); Voltaire's *Prose* (Heath Ed.); Balzac's *La Recherche de l'Absolu*; Dumas' *Les trois Mousquetaires* (Ginn Ed.); Pelissier's *Anthologie des Prosateurs français contemporains* (Paris, Delagrave Ed.); Racine's *Andromaque*, *Britannicus*, *Athalie*; Corneille's *Cinna* and *Polyeucte*; Molière's *Les Précieuses Ridicules*; Beaumarchais' *Mariage de Figaro*; Hugo's *Hernani* and *Ruy Blas*.]

In place of the above, a candidate may offer the examination of the College Entrance Examination Board in French BC.

Elementary Latin.

Two units.

The Latin reading shall be not less in amount than Cæsar, Gallic War, I—IV, and should be selected by the schools from Cæsar (Gallic War and Civil War) and Nepos (Lives). Candidates will be examined in translation at sight of passages from the above authors, also in grammar and composition.

In place of the examination for two units in Elementary Latin a candidate may offer the following examination of the College Entrance Examination Board:

Latin, 3.

Intermediate Latin.

One unit.

The Latin reading, without the prescription of particular authors and works, shall be not less in amount than Cæsar, Gallic War, I—IV, and Cicero, the orations against Catiline, for the Manilian Law, and for Archias; this reading should be selected from Cæsar (Gallic War and Civil War) and Nepos (Lives), Cicero (orations, letters, and *De Senectute*) and Sallust (*Catiline* and *Jugurthine War*).

Candidates will be examined in translation at sight of passages from Cæsar and Cicero. The vocabulary, constructions, and range of ideas will be suited to the preparation secured by the reading indicated above. There will also be an examination on the following prescribed reading: Cicero, orations for the Manilian Law and for Archias.

Or the requirement in poetry, as defined under Advanced Latin, may be offered as optional in place of the third year prose.

The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examination in composition will be such as are common in the reading of the years covered by the examination.

In place of the examination for three units in Intermediate Latin a candidate may offer the following examinations of the College Entrance Examination Board:

Latin, 1, 2, and 4, or 1, 2 and 4 combined.

Advanced Latin.

One unit.

I. AMOUNT AND RANGE OF THE READING REQUIRED

1. The Latin reading, without regard to the prescription of particular authors and works, shall be not less in amount than Cæsar, Gallic War, I—IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, *Æneid*, I—VI.

2. The amount of reading specified above shall be selected by the schools from the following authors and works: Cæsar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and *De Senectute*) and Sallust (Catiline and Jugurthine War); Vergil (*Bucolics*, *Georgics*, and *Æneid*) and Ovid (*Metamorphoses*, *Fasti*, and *Tristia*).

II. SUBJECTS AND SCOPE OF THE EXAMINATIONS

1. *Translation at sight.* Candidates will be examined in translation at sight of both prose and verse. The vocabulary,

constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above.

2. *Prescribed Reading.* Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, *Æneid*, I, II, and either IV or VI at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

3. *Grammar and Composition.* See statement under Intermediate Latin.

In place of the examination for four units in Latin a candidate may offer the following examinations of the College Entrance Examination Board:

Latin, 1, 2, 4, and 5, or 1, 2 and 4 combined, and 5.

SUGGESTIONS CONCERNING PREPARATION

Exercises in translation at sight should begin in school with the first lessons in which Latin sentences of any length occur, and should continue throughout the course with sufficient frequency to insure correct methods of work on the part of the student. From the outset particular attention should be given to developing the ability to take in the meaning of each word—and so, gradually, of the whole sentence—just as it stands; the sentence should be read and understood in the order of the original, with full appreciation of the force of each word as it comes, so far as this can be known or inferred from that which has preceded and from the form and the position of the word itself. The habit of reading in this way should be encouraged and cultivated as the best preparation for all the translating that the student has to do. No translation, however, should be a mechanical metaphrase. Nor should it be a mere loose

paraphrase. The full meaning of the passage to be translated, gathered in the way described above, should finally be expressed in clear and natural English.

A written examination cannot test the ear or tongue, but proper instruction in any language will necessarily include the training of both. The school work in Latin, therefore, should include much reading aloud, writing from dictation, and translation from the teacher's reading. Learning suitable passages by heart is also very useful, and should be more practised.

The work in composition should give the student a better understanding of the Latin he is reading at the time, if it is prose, and greater facility in reading. It is desirable, however, that there should be systematic and regular work in composition during the time in which poetry is read as well; for this work the prose authors already studied should be used as models.

Elementary Greek.

Two units.

The examination will be adapted to the proficiency of those who have studied Greek in a systematic course for two years. It will consist of two parts, which cannot be taken separately:

- (a) The translation at sight of passages of simple Attic prose.
- (b) An examination on Xenophon's *Anabasis*, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language.

Before taking the elementary examination the candidate should have read, in addition to the usual grammar work, at least four books of Xenophon's *Anabasis*, or an equivalent.

In place of the examination in Elementary Greek a candidate may offer the following examinations of the College Entrance Examination Board.

Greek A i and ii, and B.

Advanced Greek.

One unit.

The examination will be adapted to the proficiency of those who have studied Greek in a systematic course for three years. The two parts of the examination may be taken separately:

(a) The translation at sight of an average passage of Homer ; with questions on ordinary forms, constructions, and idioms, and on prosody.

(b) The translation into Attic prose of a passage of connected English narrative. The passage set for translation will be based on some portion of the Greek prose works usually read in preparation for college.

Before taking the examination in Advanced Greek the candidate should have completed at least four books of Xenophon's *Anabasis*, or their equivalent in Attic prose, and six books of Homer's *Iliad*, or their equivalent in the *Odyssey*. It is recommended that Greek composition accompany all stages of the preparation, and that the pupil be practiced in reading Greek aloud from the beginning of the course.

In place of the examination in Advanced Greek a candidate may offer the following examinations of the College Entrance Examination Board.

Greek A i, B, C or CH, and F.

Elementary History.

One unit.

The examinations in history will be framed so as to require the use of both judgment and memory on the pupil's part. They will presuppose the use of good text-books, collateral reading, systematic note-taking and practice in written work. Geographical knowledge will be tested by requiring the location of places and movements on an outline map.

One of the following :

1. Ancient History of Greece and Rome. (a) The history of the Eastern Nations and Greece to the conquest of Greece by Rome, with due reference to Greek life, literature, and art, as treated in the histories of Botsford, Oman, West, or Myers.

(b) The history of Rome to the end of the Roman Empire in the West (476), with due reference to Roman literature and government. Such texts as those of Myers, Botsford, West, or Allen will indicate the character of the work desired.

2. The History of England. The histories of Andrews, Cheyney, Larned, and Montgomery will indicate the character of the work expected.

3. The History and Government of the United States. Such texts as those of McLaughlin, Johnston, Channing, Ashley, and Reed should be used.

It is recommended that all candidates for admission to the courses leading to the degree of A.B. or S.T.B. should offer Greek and Roman history.

The requirement in history implies one year's work in each subject presented of not less than five periods a week. A notebook of not less than fifty written pages, based upon three hundred pages of collateral reading, should be presented at the time of examination. In place of any one of the examinations described above a candidate may offer any one of the four examinations in History of the College Entrance Examination Board, but candidates desiring to offer substitutes must give notice to the Secretary of the Faculty at least one month previous to the time set for the examination. The attention of teachers is called to the Report of the Committee of Seven, published by the Macmillan Company, New York, under the title, "The Study of History in Schools," and to the "History Syllabus for Secondary Schools" published by Heath and Co., Boston.

The attention of teachers is called also to the Report of the Committee of Five of the American Historical Society. "The Study of History in Secondary Schools" (New York, The Macmillan Company, 1911).

Advanced History.

Any of the following not offered to fulfil the elementary requirement:

1. Ancient History as described above.
2. The History of England as described above.
3. The History and Government of the United States, as described above.

Each of these subjects requires one year's study of not less than five periods a week. A note-book of not less than fifty written pages, based upon three hundred pages of collateral reading, should be presented at the time of the examination. Equivalents for the subjects outlined above will be accepted, upon due notice, as indicated above under Elementary History provided that the subject so offered has not been accepted for the elementary History requirement.

Mathematics.

A knowledge of the metric system, and ability to perform accurately the ordinary processes of arithmetic, are presumed.

A 1. Algebra to quadratics.

One unit.

The four fundamental operations for rational algebraic expressions.

Factoring, determination of highest common factor and lowest common multiple by factoring.

Fractions, including complex fractions, and ratio proportion.

Linear equations, both numerical and literal, containing one or more unknown quantities.

Problems depending on linear equations.

Radicals, including the extraction of the square root of polynomials and of numbers.

Exponents, including the fractional negative.

A 2. Algebra. Quadratics and beyond.

One unit.

Quadratic equations, both numerical and literal.

Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations.

Problems depending on quadratic equations.

The binomial theorem for positive integral exponents.

The formulas for the n th term and the sum of the terms of arithmetical and geometric progressions, with applications.

C. Plane Geometry, including the usual theorems on straight lines, angles, rectilinear figures, circles, and regular polygons ;

similar triangles and proportion; construction; original exercises in demonstration; numerical problems in mensuration.

One unit.

B. Advanced Algebra: Permutations and combinations; complex numbers and the graphical representation of sums and differences; determinants including the use of minors, and the solution of linear simultaneous equations; solution of numerical equations of higher degree and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method. Credit in Advanced Algebra is given only on examination.

One-half unit.

D. Solid Geometry, including properties of straight lines and planes, dihedral and polyhedral angles; of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres; of spherical triangles, and the measurement of surfaces and solids.

One-half unit.

F. Plane Trigonometry, including the definition and relations of the six trigonometrical functions as ratios, proof of important formulæ, solution of trigonometric equations of a simple character, theory of logarithms and use of tables, solution of right and oblique plane triangles.

One-half unit.

In place of the examinations in Mathematics a candidate may offer the examinations of the College Entrance Examination Board as follows:

Math. A for A; Math. C for C; Math. B for B; Math. D for D; Math. F for F.

Physics.

One unit.

The unit in Physics consists of at least 120 periods of sixty minutes each. Time spent in the laboratory shall be counted one-half at its face value. The course of instruction should include: (1) The study of one standard text-book. (2) Individual laboratory work consisting of experiments requiring at least the time of 30 double periods. Each student should per-

form at least 30 experiments, so distributed as to cover as fully as possible the subject matter of the text-book.

In lieu of the presentation of the laboratory note-book, at the time of the examination, the candidate must present a certificate in the following form :

TEACHER'S CERTIFICATE

..... School
..... 19

I certify that has personally performed and properly recorded in a suitable note-book experiments in the physical laboratory of the School, during the year

The entire course has occupied time equal to periods of 60 minutes each, of which hours have been given to the laboratory work and hours to lecture and recitation work.

Signed

Teacher of Physics.

The teacher may here enter the final grade of per cent.

In place of the above, candidates may present the examination of the College Entrance Examination Board in Physics.

Chemistry.

One unit.

Preparation for this requirement presupposes a course in general inorganic chemistry (non-metals and metals) of not less than five periods a week for a year. The amount of class work should equal that in *An Introduction to the Study of Chemistry*, by Ira Remsen, and the experiments should be equivalent to those in Remsen's *Laboratory Manual*. Time spent in the laboratory shall be counted at one-half its face value. The experiments must be performed by the student, and a certified laboratory note-book must be presented at the time of the examination.

In place of the above, candidates may offer the examination of the College Entrance Examination Board in Chemistry.

Biology, Botany and Zoology.

One unit each

In Biology, Botany and Zoology the examiners give more weight

to the character of the work and the development of scientific habits than to the time spent; but at least five periods a week for a year must be given to each subject presented, and of this at least a half should consist of laboratory work. Certified copies of laboratory note-books must be presented. The work should be in structural and physiological lines and should include a detailed study of at least ten types. While it is desirable that these types should represent the chief phyla of the plant and animal kingdoms, it is most important that through their study the student shall become familiar with the experimental or inductive method of work.

In place of the examinations in Biology, Botany and Zoology, candidates may offer the examinations in Biology, Botany and Zoology of the College Entrance Examination Board.

Geology or Geography.

One unit.

1. Geology: Le Conte's Elements of Geology or a book of equivalent grade, including a similar account of evolutionary theory.

2. Geography: Davis, or book of equivalent grade.

At least five periods a week for a year must have been given to the subject presented. There should have been some laboratory work and excursions. Certified copies of note-books of laboratory work and excursions must be presented.

In place of the examination in Geography, candidates may offer the examination in Geography of the College Entrance Examination Board.

Freehand Drawing.

One unit or one-half unit.

Such a knowledge of the fundamental principles of perspective is required as shall enable the student to draw a simple geometric figure with or without the use of a model. Certified drawings from a systematic course must be submitted for approval and the student may be examined on all points in doubt.

In place of the above the candidate may offer the examination in drawing of the College Entrance Examination Board.

Mechanical Drawing.**One unit.*

Accuracy and neatness in drawing is of the first importance, and no amount of work will make amends for neglect in these respects. The student must be familiar with the use of ordinary instruments, and able to solve geometrical problems with accuracy and rapidity. He must have an elementary knowledge of projection, intersection and development, and should also be practiced in the drawing of the ellipse, the parabola, and the hyperbola. The suggested course is included in the first one hundred pages of Anthony's Elements of Mechanical Drawing. Certified drawings must be submitted for approval and the student may be examined on all points in doubt.

Shopwork.*

The following units are given for courses satisfactorily pursued in well organized and fully equipped manual training or technical high schools in which the broad foundations of manual and graphic culture are given. The elementary work in the several courses must be thoroughly covered, and no credit will be given for premature engineering work.

Joinery	<i>One-half unit</i>
Wood Turning and Elementary Pattern Making	<i>One-half unit</i>
Forging	<i>One-half unit</i>
Bench and Machine Metal Fitting	<i>One-half unit</i>

Details of the work required for preparation in the above courses may be obtained by application to the Department of Mechanic Arts.

Elementary Economics.*One-half unit.*

Preparation for Economics presupposes that the candidate has studied the subject in a systematic course of at least three periods a week for one full year. Credit in Economics will be given only on examination. The examination will be based upon such text-books as Bullock's or Seager's Introduction to the Study of Economics. A knowledge of civics and, particu-

*Not more than two units may be counted by any candidate in the subjects of Drawing and Shopwork.

larly, modern industrial history is of great value in supplementing the study of economic theory.

Music.

Entrance credit in Music is given only on examination. Not more than one unit in Music may be counted by any candidate.

(A) MUSICAL APPRECIATION.

One-half unit.

The examination will be adapted to the attainment of those who have had one year's systematic training, with three lessons a week, or its equivalent. The candidate is expected to have (1) a general knowledge of the principal musical forms—song, classic dance, fugue, sonata (all movements), symphony—and of their historical development; (2) a general knowledge of the lives and environment of at least ten composers, including Bach, Mozart, Beethoven, Schubert, Chopin, and five of the following: Purcell, Handel, Gluck, Haydn, Cherubini, Weber, Rossini, Glinka, Mendelssohn, Schumann, Wagner, Verdi; (3) familiarity with certain designated works, the list of which may be had on application to the Department of Music. In the examination on these works, the candidate will be expected to identify characteristic portions of the works set, when played in any key by the examiner; and to give intelligent information concerning the form and character of the works themselves. The test will not require ability to perform, nor to read from printed music.

(B) HARMONY.

One-half unit.

The examination will be adapted to the proficiency of those who have had one year's systematic training, with three lessons a week, or its equivalent. The candidate should have acquired (1) the ability to harmonize, in four vocal parts, simple melodies of not fewer than eight measures, in soprano or in bass: these melodies will require a knowledge of triads and inversions, of diatonic seventh chords and inversions, in the major and minor modes; and of modulation, transient or complete, to nearly-related keys; (2) analytical knowledge of ninth chords, all non-harmonic tones, and altered chords (including augmented

chords). [Students are encouraged to apply this knowledge in their harmonization.]

It is urgently recommended that systematic ear-training (as to interval, melody, and chord) be a part of the preparation for this examination. Simple exercises in harmonization at the pianoforte are recommended. The student will be expected to have a full knowledge of the rudiments of music, scales, intervals, and staff-notation, including the terms and expression-marks in common use.

(D) PIANOFORTE, OR (E) VOICE, OR (F) VIOLIN. *One-half unit.*

The examination in each of these subjects will consist of a test in theory, and a test in performance. The former will be conducted in writing, and will be adapted to the proficiency of those who have had one year's systematic training, with one lesson a week, or its equivalent. The candidate should have acquired:

A knowledge of the rudiments of music, scales, intervals, and staff-notation, including the terms and expression-marks in common use; the ability to analyze the harmony and form of hymn-tunes and simplest pieces for the pianoforte, involving triads and the dominant seventh chord and their inversions, passing tones, and modulation to nearly-related keys; the ability to harmonize, on paper, in four vocal parts, melodic fragments involving the use of triads and the dominant seventh chord and their inversions in major keys.

As a basis of the test in performance, the candidate is to furnish a detailed statement from the teacher, showing the course of instrumental or vocal study pursued.

In place of the above, candidates may offer the corresponding examination of the College Entrance Examination Board: Music A, B, and D or E or F.

EXAMINATIONS OF THE COLLEGE ENTRANCE EXAMINATION BOARD

In June, 1918, the admission examinations of this College will be the examinations of the College Entrance Examination Board, of which Tufts College is a member. The examinations will be held during the week June 17-22, 1918, in Robinson Hall, Tufts College, Massachusetts.

All applications for examinations must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., and must be made upon a blank form, to be obtained from the Secretary of the Board upon application.

If the application is received sufficiently early the examination fee will be \$5.00 for candidates examined in the United States and Canada, and \$15.00 for candidates examined outside of the United States and Canada. The fee should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

The applications and fees of candidates who wish to be examined outside of the United States and Canada must reach the Secretary of the Board at least five weeks in advance of the first day of the examinations, that is, on or before Monday, May 13, 1918.

The applications and fees of candidates who wish to be examined in the United States at points west of the Mississippi River must be received at least three weeks in advance of the examinations, that is, on or before Monday, May 27, 1918.

The applications and fees of candidates who wish to be examined in the United States at points east of the Mississippi River, or on the Mississippi River, must be received at least two weeks in advance of the first day of the examinations, that is, on or before Monday, June 3, 1918.

When the candidate has failed to obtain the required blank form of application for examination the usual examination fee will be accepted if the fee arrives not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination centre at which he

wishes to present himself, and a list of all the subjects in which he may have occasion to take the Board's examinations.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidates concerned, but only upon payment of \$5.00 in addition to the usual fee.

A list of the places at which examinations are to be held by the Board in June, 1918, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

For the convenience of those who present the examinations of the College Entrance Examination Board, the following table of equivalents is presented:

TUFTS COLLEGE ENTRANCE SUBJECTS	COLLEGE ENTRANCE EXAMINATION BOARD EQUIVALENT
English 1	English 1
English 2	English 2
Elementary German	German A
Intermediate German	German B
Advanced German	German BC
Elementary French	French A
Intermediate French	French B
Advanced French	French BC
Elementary Latin	Latin 3
Intermediate Latin	Latin 1, 2 and 4, or 1, 2 and 4 combined
Advanced Latin	Latin 1, 2, 4 and 5, or 1, 2 and 4 combined, and 5
Elementary Greek	Greek A i and ii B, and G
Advanced Greek	Greek A i, B, C or CH, F, and G
Elementary History	History A, B, C, or D
Advanced History	History A, B, C, or D
Mathematics	Mathematics A1
Algebra A1	Mathematics A 2
Algebra A 2	Mathematics C
Plane Geometry	Mathematics B
Advanced Algebra	Mathematics D
Solid Geometry	Mathematics F
Trigonometry	Physics
Physics	Chemistry
Chemistry	Botany
Botany	Zoology
Zoology	Biology
Biology	Geography
Geology or Geography	Freehand Drawing
Freehand Drawing	Mechanical Drawing
Mechanical Drawing	Music B, D, E, F
Music B, D, E, F	

INDEX

- Absences, 28
- Admission, Requirements for, 21
 - A.B. Degree, 21
 - B.S. Degree, 21
 - S.T.B. Degree, 21
 - Bromfield-Pearson School, 120
 - Certificate, By, 22
 - Dental School, 161
 - Elective Group, 145
 - Engineering, Courses in, 21
 - Examination, By, 23, 145
 - Free Margin Group, 21
 - From Other Colleges, 24, 162, 164
 - General Information relating to, 25
 - Jackson College, 85
 - Medical School, 161
 - Methods, 22
 - Pre-Medical course, 144
 - Prescribed Group, 21
 - Theology, Course in, 123
- Anaesthesia and Extraction, Instruction in, Dental School, 202
- Anatomy, Instruction in, 175, 196
 - In School of Liberal Arts, 68
- Application for Admission
 - Two-Year Pre-Medical Course, 146
 - Medical and Dental Schools, 163
- Applied Christianity, Instruction in, Theological School, 127
 - Applied Therapeutics, Instruction in, 179
- Archaeology, Classical, Instruction in, 76
- Associated Schools, 11
 - Calendar, 13
 - Faculty, 14
- Athletic Fields, 44
- Athletics, 29
- Awards of Prizes 1916-17, 210
- Bacteriology, 177, 201
- Bandaging, 181
- Biological Chemistry, Instruction in, 178
 - Laboratory, 6
- Biology, Instruction in, Liberal Arts, 67
 - Entrance Requirements in, 278
 - Instruction in, Pre-Medical Course, 148
- Botany, Entrance Requirements in, 279
 - Instruction in, 68
- Bromfield-Pearson School, 119, 120
 - Admission Requirements, 120
- Buildings
 - Barnum Museum, 44
 - Bromfield-Pearson Building, 45
 - Chemical Building, 45
 - Dormitories, 32, 86
 - Eaton Memorial Library, 43
 - Engineering Laboratories, 45
 - Goddard Gymnasium, 44
 - Medical and Dental, 156
 - Metcalf Hall, 85
 - Miner Hall, 43
 - Packard Hall, 43
 - Robinson Hall, 45
- Calendar, Associated Schools, 13
 - Medical and Dental Schools, 155
 - Two-Year Pre-Medical Course, 140
- Certificate, Admission by, 22
- Changes in Requirements, 4, 161, 194
- Chemistry, Four-year Course in, 53
 - Biological, Medical School, 178
 - Entrance Requirements in, 278
 - Instruction in, School of Liberal Arts, 65
 - Instruction in, Engineering School, 105
 - Instruction in, Dental School, 196, 197
 - Instruction in, Pre-Medical Course, 148
 - Physiological, Medical School, 176
- Chemical Engineering, 95, 107
- Children, Diseases of, Instruction in, 179
- Civil Engineering, 95, 108
- Classical History and Archæology, Instruction in, 76
- Clinical Facilities, 156, 157
- Clinical Medicine, 180
- Commencement Parts, 209
- Committees
 - Arts and Sciences, 20
 - Crane Theological School, 121
 - Dental School, 185
 - Engineering School, 89
 - Graduate School, 131
 - Jackson College, 81
 - Liberal Arts, School of, 47
 - Medical School, 165
 - Two-Year Pre-Medical Course, 139
 - Student Employment, 42
- Courses, Outline of
 - Crane Theological School, 124
 - Dental School, 194
 - Engineering School, 94
 - General Course, Leading to the degree of Bachelor of Arts or Bachelor of Sciences, 51
 - Jackson College, 51
 - Medical School, 175
 - Two-Year Pre-Medical Course, 147
 - School of Liberal Arts, 50
- Crane Theological School, 123
 - Faculty, 122
 - Outline of Courses, 123
 - Scholarships, 128
 - Standing Committee, 121
- Crown and Bridge Work, 200
- Degrees Conferred in 1916-17, 204
 - Requirements for, Bachelor of Arts, 51, 54
 - Bachelor of Sacred Theology, 123
 - Bachelor of Science, 51, 54
 - Bachelor of Science in Chemistry, 53
 - Bachelor of Science in Engineering Courses, 93
 - Doctor of Medicine, 161
 - Doctor of Dental Medicine, 194
 - Jackson College, 85
 - Master of Arts, 133
 - Master of Science, 133
- Departments, Order of, 55
- Departments of Instruction in
 - Engineering School, 100
 - Pre-Medical Course, 148
 - School of Liberal Arts, 55
- Dental School, 185, 193
 - Departments of Instruction, 196
 - Expenses, 196
 - Faculty, 185
 - Outline of Courses, 194
 - Requirements for Admission, 162

- Requirements for Degree, 160
- Standing Committee, 185
- Dentistry, Instruction in
 - Clinical, 157
 - Operative, 199
 - Prosthetic, Instruction in, 197
- Dermatology, 184
- Diagnosis, Physical, 179
- Medical, 179
- Diseases of Children, 179
- Dormitories, men, 32; women, 86
- Drawing, Freehand, Entrance Requirements in, 279
- Instruction in, Engineering School, 102
- Mechanical, Entrance Requirements in, 280
- Economics, Entrance Credit in, 280
 - Instruction in, 73, 117, 150
- Education, Instruction in, 70
- Electrical Engineering, 95, 115
- Electricity, Instruction in
 - Engineering School, 115
- Embryology, Instruction in, 177
- Employment for Students, 42
- Engineering School, 89
 - Courses of Instruction in, 93
 - Course in Chemical, 95, 97, 107
 - Course in Civil, 95, 96, 108
 - Course in Electrical, 95, 97, 116
 - Course in Mechanical, 95, 97, 113
 - Course in Structural, 95, 96, 112
 - Departments of Instruction, 100
 - Engineering Laboratories, 43
 - Examination Group System, 100
 - Index to Subjects in, 98
 - Faculty, 90
 - Requirements for degrees, 93
 - Standing Committees, 89
- English, Elementary, Entrance Requirements, 260
 - Instruction in, School of Liberal Arts, 56
 - Instruction in, Engineering School, 100
 - Instruction in, Pre-Medical Course, 149
 - Instruction in, Dental School, 197
- Equipment and Buildings, 43
- Ethics, Instruction in, Theological School, 125
- Examinations
 - College Entrance Examination Board, 283
 - Entrance, 13, 23, 145
 - Medical and Dental Schools, 159, 163
- xpenses
 - Bromfield-Pearson School, 29
 - Crane Theological School, 30, 128
 - Graduate School, 30, 137
 - Jackson College, 30, 86
 - Medical and Dental, 157
 - Pre-Medical Course, 146
 - School of Liberal Arts, 29
- Faculty, Associated Schools, 14
 - Crane Theological School, 122
 - Dental School, 156, 194
 - Engineering School, 90
 - Graduate School, 132
 - Jackson College, 82
 - Dental School, 186
 - Medical School, 166,
 - School of Liberal Arts, 48
 - Two-Year Pre-Medical Course, 143
- Fees, Examinations, 30
 - Registration, 30
 - Tuition, 30
- Gymnasium and Student Organizations, 31
 - General Maintenance, 32
 - Laboratory, 33
- Fines, 28
- Filing of Program, 25
- Foreman of the Grounds and Buildings, 19
- French, Advanced, Entrance Requirements in, 269
- Intermediate, Entrance Requirements in, 268
- Elementary, Entrance Requirements in, 268
- Instruction in, Engineering School, 101
- Instruction in, Pre-Medical Course, 147
- Instruction in, School of Liberal Arts, 59
- Freshman Program
 - Engineering School, 94
 - School of Liberal Arts, 52
 - General Engineering, 117
- General Information, Associated Schools, 25
 - Medical and Dental Schools, 156
- Genito-Urinary Diseases, Instruction in, 180
- Geography, Entrance Requirements in, 279
- Geology, Entrance Requirements in, 279
 - Instruction in, 69
 - Engineering School, 115
- German, Advanced, Entrance Requirements in, 267
- Intermediate, Entrance Requirements in, 266
- Elementary, Entrance Requirements in, 265
- Instruction in, Engineering School, 101
- Instruction in, Pre-Medical Course, 150
- Instruction in, School of Liberal Arts, 58
- Grade required for graduation, 54
- Grades of Scholarship, 27
- Graduate School, 131
 - Courses of Instruction, 134
 - Expenses, 137
 - Faculty, 132
 - Requirements for degrees, 131
 - Standing Committees, 131
 - Scholarships, 137
- Graphics, Instruction in, 102
- Greek, Advanced, Entrance Requirements in, 273
- Elementary, Entrance Requirements in, 273
- Instruction in, School of Liberal Arts, 61
- Gymnasium, Goddard, 44
 - Jackson, 85
- Gynecology, Instruction in, 182
 - Clinical, Instruction in, 183
- Harpswell Laboratory, 6
- Hebrew, Instruction in, 125
- Hematology, 180
- Histology, Instruction in,
 - Dental School, 198
 - Medical School, 175
- History, Advanced, Entrance Requirements in, 275
- Elementary, Entrance Requirements in, 274
- Of Religions, Instruction in, 125
- History and Public Law
 - Instruction in, School of Liberal Arts, 71
 - Instruction in, Pre-Medical Course, 151
- Homiletics, Instruction in, Theological School, 128
- Honors, academic, 38

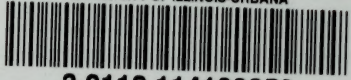
- Honors and Honorable Mention, 41, 210
 - Medical and Dental Schools, 160
 - Engineering School, 41
 - Jackson College, 41
 - School of Liberal Arts, 41
- Hospital, 42
- House mistresses, 19
- Hygiene and Sanitation, Instruction in, 180
- Insurance, 42
- Italian, Instruction in, 60
- Jackson College for Women, 81
 - Departments of Instruction (see School of Liberal Arts)
 - Dormitories, 85, 86
 - Expenses, 29, 85
 - Faculty, 82
 - Loans and Aids, 88
 - Requirements for Degrees, 85
 - Scholarships, 87
 - Standing Committees, 81
- Jurisprudence, Medical, 180
- Laboratories, Engineering, 45
- Laryngology, Instruction in, 183
- Latin, Advanced, Entrance Requirements in, 271
 - Intermediate, Entrance Requirements in, 270
 - Elementary, Entrance Requirements in, 270
 - Instruction in, School of Liberal Arts, 60
- Law, Public, and Administration, Instruction in, School of Liberal Arts, 72
- Lecturers, non-resident, Theol. School, 122
 - Medical and Dental Schools, 169
- Liberal Arts, *see* School of Liberal Arts
- Libraries,
 - Associated Schools, 43
 - Medical and Dental, 157
- Library Staff, 18
- License to Preach, 130
- Loan Funds, 38, 88
- Location, 6
- Majors, 51
- Major Departments, 50
- Marks, 27
- Mathematics, Entrance Requirements in, 276
 - Instruction in, School of Liberal Arts, 62
 - Instruction in, Engineering School, 104
 - Instruction in Pre-Medical Course, 150
- Mechanic Arts, Instruction in, 103
 - Mechanical Engineering, 95, 113
- Mechanics, Applied, Instruction in, 111
- Medical Advisers, 20
- Medical School, 165,
 - Department of Instruction, 175
 - Expenses, 172
 - Faculty, 166
 - Requirements for Admission, 161
 - Requirements for degree, 160
 - Standing Committees, 165
- Medical Preparatory Course, *see* Pre-Medical Course
- Medicine, 179
 - Clinical, Instruction in, 180
 - Theory and Practice of, Instruction in, 179
- Mental Diseases, Instruction in, 181
- Metal Technic, 197
- Mineralogy, Instruction in, 69
 - Engineering School, 117
- Minors, 51
- Modern Languages
 - Engineering School, 100
 - Graduate School, 135
 - Liberal Arts, 58
 - Pre-Medical School, 149
- Museum, Barnum, 44
- Music, Entrance Credit in, 281
 - Instruction in, 77, 136
- Neurology, Instruction in, 180
- Neuropathology, 180
- New Testament, Instruction in, 126
- Normal Freshman Program, 52
- Obstetrics, Instruction in, 182
 - Operative, Instruction in, 182
- Office, Trustees, 10
 - Associated Schools, 19
 - Medical and Dental Schools, 174
- Old Testament, Instruction in, 125
- Operative Technics, Instruction in, Dental School, 196
- Ophthalmology, Instruction in, 183
- Oral Surgery in Dental School, 202
- Oratory, Instruction in, 76
- Order of the Departments, 55
- Orthodontia, Instruction in, 200
- Orthopedic Surgery, Instruction in, 182
- Otology, Instruction in, 183
- Pastoral Care, Instruction in, 128
- Pathology, Instruction in, 177, 201
- Pecuniary Aid in Crane School, 128
- Pharmacology, Instruction in, 178, 201
- Philosophy, Instruction in, 70, 135
- Physical Diagnosis, 179, 202
- Physical Education, Department Statement, 78, 87
- Physics, Entrance Requirements in, 277
 - Instruction in, School of Liberal Arts, 64
 - Instruction in, Engineering School, 104
 - Instruction in, Pre-Medical Course, 150
- Physiology
 - Instruction in, 176, 198
- Political Science, Instruction in, School of Liberal Arts, 73
 - Instruction in, Engineering School, 117
- Pre-Medical Course, 139
 - Calendar, 140
 - Course of Instruction, 147
 - Departments of Instruction, 148
 - Expenses, 146
 - Faculty, 141
 - Graduation, 151
 - Registration, 146
 - Requirements for Admission, 144
 - Standing Committees, 139
- Prescribed Studies, 51
- Prizes, 38
- Profession of the Ministry, 128
- Program Filing of, 25
- Program, Normal Freshman, 52
- Promotion, School of Liberal Arts, 27
 - Medical and Dental Schools, 159
 - Engineering School, 27
- Psychology, Instruction in, School of Liberal Arts, 70
 - Instruction in, Pre-Medical Course, 151
- Public Law and Administration, Instruction in, 71
- Pulmonary Diseases and, Instruction in, 180
- Rectum, Diseases of the, Instruction in, 180
- Register of Students, 212
- Registration, School of Liberal Arts, 25

- Bromfield-Pearson School, 26
- Crane Theological School, 25
- Engineering School, 26
- Graduate School, 25
- Jackson College, 26, 86
- Medical and Dental Schools, 159
- Two-Year Pre-Medical Course, 144, 146
- Religious Education, 127
- Religious Observances, 28
- Requirements in the Several Departments of the Graduate School, 134
- Requirements for Degrees, *see* Degrees
- Roentgenology, Instruction in, 184, 202
- Rooms, Rent, 31
- Regulations, 31
- Russell Lecture, 20, 29
- Scholarships, 33
 - Crane Theological School, 129
 - Graduate School, 137
 - Jackson College, 87
 - Prize, 38, 87
- School of Liberal Arts
 - Courses of Instruction, 50
 - Departments of Instruction, 55
 - Expenses, 29
 - Faculty, 48
 - Requirements for degrees, 54
 - Standing Committees, 47
 - Sessions of the School, 159
- Shopwork, Entrance Requirements in, 280
- Sixty-first Annual Commencement, 210
- Spanish, Instruction in,
 - Engineering School, 102
 - Instruction in, Liberal Arts, 62
- Student Employment, Committee on, 20, 42
- Students Enrolled
 - School of Liberal Arts, 212
 - Bromfield Pearson, 227
 - Crane Theological, 228
 - Dental, 244
 - Engineering, 222
 - Graduate, 229
 - Jackson, 218
 - Medical, 234
 - Pre-Medical, 230
 - Structural Engineering, 95, 112
 - Summary of Officers and Students, 257
 - Surgery, Instruction in, 181
 - Clinical, Instruction in, 181
 - Instruction in, Dental School, 202
 - Operative, 182
 - Orthopedic, Instruction in, 182
 - Surgical Anatomy, 182
 - Surgical Technic, 181
 - Syphilis, 184
 - Teaching, Preparatory Course, 52
 - Terms and Vacations, 28
 - Theology, Instruction in, 78, 128
 - Bachelor of Sacred, taken with A.B. in six years, 124
 - Three-Year Course, 123
 - Five-Year Course, 123
 - Theory and Practice of Medicine, 179
 - Time at which college payments are made, 33
 - Time Schedule, School of Liberal Arts and Jackson College, 79
 - Toxicology, 179
 - Trustees, 8
 - Tufts College
 - Board of Editors, 20
 - Buildings and Grounds, 6
 - Buildings and Equipment, 43
 - Location, 5
 - Studies, 20, 29
 - Tuition, *see* Expenses
 - Two-Year Pre-Medical Course, 139
 - Vacations and Terms, 28
 - Visitors, Board of, 9
 - Vocations, preparation for, 52
 - Women, Funds for, 87
 - Zoology, Entrance Requirements in, 287





UNIVERSITY OF ILLINOIS-URBANA



3 0112 114109850